KEY TO CONSOLIDATED CONCEPT PROPOSALS

1 **Mill Valley Stream Keepers**
Arroyo Corte Madera del Presidio Watershed Restoration Implementation Project

Cooperating Entity 1: **City of Mill Valley** Cooperating Entity 2:**Institute for Fisheries Resources**
Grant Requested: **$470,850.00** Cost Match: **$211,000.00** Total Project **$681,850.00**

The project will implement a program of water quality and aquatic habitat restoration and land conservation measures described and prioritized in a recently-completed assessment of Mill Valley's stream system. [The recent assessment employed, among other things, stream habitat survey protocols specified by the CA Department of Fish and Game for salmon streams.] The project's restoration measures include streambank stabilization and the reestablishment of riparian vegetation; the removal or modification of existing barriers to steelhead and salmon migration; and the conservation of lands essential to the protection of water quality in the system. The project will include, as well, a program of effectiveness monitoring and evaluation.

2 **Urban Creeks Council**
Codornices Creek Watershed Restoration Actions Stage 2 (CCWRA-2)

Cooperating Entity 1: **City of Berkeley Dept. of Public Works** Cooperating Entity 2:**Far West Engineering**
Grant Requested: **$382,500.00** Cost Match: **$67,500.00** Total Project **$450,000.00**

The Codornices Creek Watershed Restoration Actions, Stage 2 (CCWRA-2), project implements the next-stage water quality and stream habitat restoration measures described and prioritized in the 2003 Codornices Creek Watershed Restoration Action Plan, funded by the CALFED Watershed Program, and preceded by the 2003-04 Prop 13-funded Codornices Creek Watershed Restoration Actions, Stage 1, project (CCWRA). Specfically, the project will remove barriers to steelhead migration and will provide bioengineering treatment of failing streambanks in the reaches of Codornices Creek above St. Mary's High School, the anticipated upstream limit of Stage 1. This project will not only double the length of Codornices Creek available to steelhead, but it will re-introduce the species into the potentially best spawning and juvenile rearing habitat in the system.

3 **Tehama County Resource Conservation District**
Sacramento Valley RCDs KRIS Watershed Information System Development

Cooperating Entity 1: **Western Shasta RCD** Cooperating Entity 2:**Vina RCD Glenn Co. RCD Colusa Co. RCD**
Grant Requested: **$2,000,000.00** Cost Match: **$420,000.00** Total Project **$2,420,000.00**

Develop a shared watershed information system, using the Klamath Resource Information System [KRIS] data integration software, to provide a platform for capturing, managing, and disseminating information, on CDs and over the internet, concerning current watershed conditions, including datasets, maps, photos, restoration plans, reports and other documents regarding geologic and vegetative conditions, land use, fish and wildlife populations, water quality, and stream channel conditions, concerning the 18 significant Sacramento River tributary watersheds from Cow Creek in Shasta County downstream to the Colusa Basin Drain. The principal project partners are five Sacramento Valley Resource Conservation Districts and the KRIS development team, all working in close consultation and cooperation with the many watershed community groups within the four-county area [the partnership reserves a place in the project for newly-formed Butte Co. RCD when that county can opt into the project].

4 **San Mateo County Resource Conservation District**
Catalog of projects for nonpoint source reduction sediment control technical assistance monitoring watershed and fisheries retoration.

Cooperating Entity 1: **Ag & Rural Lands Plan AWQA Steering Committee** Cooperating Entity 2:**0**
Grant Requested: **$1,083,000.00** Cost Match: **$483,810.00** Total Project **$1,566,810.00**

This pre-proposal lists a number of local projects identified by the SMC RCD Board, as required by state and federal law, for assessment, monitoring, technical assistance, and implementation within the district that can be linked to other programs, organizations and funding sources. All are important to district goals and objectives for NPS and resource conservation. The intent is for the RWQCB to pick projects from the list that most meet SWRCB goals and objectives and then package those RCD projects chosen with similar projects submitted by other organizations into a larger collaborative county or regional effort for a full proposal. The RCD is willing to collaborate with other organizations into a consolidated effort on full proposals on similar subjects, watersheds, or regions such as San Mateo County or Ag & Rural Lands Plan.

5 **Central Sacramento Valley Resourse Conservation & Development Area Council**
Continuous Cycle Wastewater Treatment System

Cooperating Entity 1: **R.S. Green Construction Specialies** Cooperating Entity 2:**International Specialty Supply**
Grant Requested: **$570,000.00** Cost Match: **$110,200.00** Total Project **$655,200.00**

A continuous water recycling system that will remove dairy waste from loafing and milk sheds. The waste will be filtered to remove solids and reduce nutrient loading to below natural occuring levels. The process will add value to the solids and nutrient load through composting and hydroponic / aquaponic systems. After going through this bio-filtering process the water can be returned to the dairy for wash down or to a former waste pond that will be reconstructed into a wildlife habitat. Once the system has been debugged it will be available as a agricultural tourist and educational / outreach site.

8 **Riverside- Corona Resource Conservation District (RCRCD)**
NPS and WPP for the Temescal Canyon Project Area

Cooperating Entity 1: **Temescal Canyon Properties-8 LLC and SE Corporation** Cooperating Entity 2: **Santa Ana Watershed Project Authority (SAWPA)**

Grant Requested: **$5,000,000.00** Cost Match: **$5,000,000.00** Total Project **$10,000,000.00**

The RCRCD's concept proposal is targeted at the improvement of water quality of the greater Santa Ana River Watershed, specifically that of the Temescal Wash system. The purpose of the project proposed is to capture and treat polluted nusiance runoff from the I-15 freeway and other sources that otherwise would have flowed, uncontrolled and unprocessed, into the watershed. The proposed system intercepta and treats these waters for both particulate and disolved pollutants prior to their ultimate discharge into the Temescal Wash system.

9 **Plumas Corporation**
Red Clover Creek/McReynolds Restoration Project

Cooperating Entity 1: **USDA- Natural Resource Conservation Service** Cooperating Entity 2: **Ca. Dept. of Water Resources**

Grant Requested: **$1,101,000.00** Cost Match: **$130,000.00** Total Project **$1,231,000.00**

The proposed project is to reconnect the deeply downcut Red Clover Creek stream channel to its naturally evolved floodplain. This action would reduce erosion, attenuate floodflows, increase summer baseflow and restore aquatic and wet meadow terrestrial habitat.

10 **City of Laguna Hills**
SOURCE CONTROL AND POLLUTANT REDUCTION PROGRAM

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$1,120,000.00** Cost Match: **$280,000.00** Total Project **$1,400,000.00**

The City of Laguna Hills is applying for grant funding to develop a Public Education Program and a Storm Drain Facility Program. The project consists of the following: promoting the County of Orange Public Education Program within the City, developing specific target brochures for unique issues to Laguna Hills, developing a storm drain system inventory, creating a storm drain underground inspection program, and installing filters and screens on all City-owned storm drain inlets.

11 **Palmdale Water District**
Palmdale Ditch Resource Management Plan & Program

Cooperating Entity 1: **N/A** Cooperating Entity 2: **N/A**

Grant Requested: **$1,564,920.00** Cost Match: **$391,230.00** Total Project **$1,956,150.00**

The Palmdale Water District (PWD) proposes to implement a new Resource Management Plan and program for the Palmdale "Ditch" to test and monitor water quality conditions and assess environmental health. As part of the program the District proposes to test a section of the Ditch as outlined in the District's 93-97 Sanitary Survey. Sanitary Survey, (Section IX, Conclusions and Recommendations, page IX-3 "Protect Palmdale Ditch from runoff and unauthorized activities by covering it or replacing it with a pipeline, in phases, as development occurs around it; Phase 1 of the work should include those sections of the ditch near occupied lots between Lake Palmdale and Sierra Highway".) The test section will allow the District to gather data on flow characteristics and water quality improvements for a piped system versus the current earthen channel.

12 **South Yuba River Citizens League**
Humbug Creek Watershed Assessment Planning and Outreach Project

Cooperating Entity 1: **US Bureau of Land Mangement** Cooperating Entity 2: **California State Parks**

Grant Requested: **$429,250.00** Cost Match: **$75,750.00** Total Project **$505,000.00**

SYRCL seeks to develop an approach for management; assessment, and mitigation of hydraulic mine site impacts using the Humbug Creek watershed and its impacts on the Bay-Delta watershed as a model for similar sites littering the Sierra Nevada foothills. This project will be directed at gathering information to address the source, fate, and transport of sediment, mercury, and other heavy metals associated with historical mining. The information will be analyzed and used to develop a management plan that includes a engineered feasibility study of a mitigation alternative selected by the combined efforts of a technical workgroup and a community stakeholder

13 **California State Parks**
Effectiveness Monitoring of Reference Watersheds for Watershed Restoration Planning Prioritization and TMDL Compliance.

Cooperating Entity 1: **Redwood Sciences Laboratory** Cooperating Entity 2: **USGS Western Ecological Research Center**

Grant Requested: **$750,000.00** Cost Match: **$267,000.00** Total Project **$1,017,000.00**

Effectiveness monitoring for watershed restoration planning, prioritization and TMDL compliance. Project objective: Obtain water quality and quantity data from 3 types of reference watersheds (size range ~1 sq. mi to 41 sq. mi); and determine trends of water quality/ quantity and fish populations in response to watershed restoration efforts. Reference watersheds to be investigated are 1) Old Growth, 2) impacted watersheds pre-restoration, 3) impacted watersheds post-restoration.

14 **CITY OF TEMECULA**
Santa Margarita River Watershed Assessment and Management Strategy Program

Cooperating Entity 1: **NOT APPLICABLE** Cooperating Entity 2: **NOT APPLICABLE**

Grant Requested: **$500,000.00** Cost Match: **$0.00** Total Project **$500,000.00**

To develop a program that will assess the sources of phosphorus discharges impacting the Murrieta Creek and Upper Santa Margarita River within the limits of the City of Temecula, and implement an inspection and enforcement program that will assist in gradually mitigating the elevated phosphorus levels specified on the 2002 Federal Clean Water Act Section 303(d) List of Water Quality Limited Segments in order to protect, preserve, and restore the water quality of the two impaired streambeds.

15 **Colusa County Resource Conservation District**
Coordinated Colusa Basin Water Quality Improvement Project

Cooperating Entity 1: **Colusa Basin Drainage District** Cooperating Entity 2: **CURES**
Grant Requested: **$1,119,042.00** Cost Match: **$0.00** Total Project **$1,119,042.00**

The Coordinated Colusa Basin Water Quality Improvement Project will conduct a community-based education and coordination program to promote awareness of water quality issues and implement locally adapted water quality solutions on irrigated lands within the Colusa Basin Watershed. The Colusa County Resource Conservation District will administer and facilitate a locally led watershed water quality planning, outreach and eduation, implementation and monitoring process, in conjunction with a multi-stakeholder coordination plan.

16 **City of San Bernardino Public Works Division**
Vision Creek

Cooperating Entity 1: **CalTrans District 8** Cooperating Entity 2: **San Bernardino City Unified School District**
Grant Requested: **$5,000,000.00** Cost Match: **$11,000,000.00** Total Project **$16,000,000.00**

Vision Creek will use a series of interconnected wetlands, ponds and streams designed to treat urban stormwater runoff using both conventional methods and innovative natural processes. The system of streams and ponds is a series of stormwater retention and de-silting basins and water conveyances that will treat stormwater runoff and incorporate groundwater taken from the high ground water table to mitigate soil liquefaction in the area during earthquakes. The treated water will be used to sustain trees, shrubs and grass areas that will beautify the city by converting the basins and channels into a greenbelt of urban area parks and paseos to be enjoyed by the proposed business and commercial developments.

17 **Friends of Deer Creek**
Lower Deer Creek: Restoring an Impaired Waterbody

Cooperating Entity 1: **Friends of Deer Creek** Cooperating Entity 2: **Natural Heritage Institute**
Grant Requested: **$702,000.00** Cost Match: **$156,000.00** Total Project **$858,000.00**

This project will begin to restore a 4 mile portion of Deer Creek recently added to the 303d list. High algae growth will be studied and methods explored to reduce algae impact on water quality. Invasive plant removal and native plant replacement will be implemented to reduce water temperatures. New cobble will be used to increase spawning beds.

18 **Friends of Deer Creek**
Upper Deer Creek: Collaborative Learning Abouy a Rural Stream

Cooperating Entity 1: **Friends of Deer Creek** Cooperating Entity 2: **City of Nevada City**
Grant Requested: **$887,000.00** Cost Match: **$202,000.00** Total Project **$1,089,000.00**

This project will study the water quality and mercury levels in Deer Creek and its tributaries (recently listed as a 303d impaired waterbody for Hg) and to determine what methods might be used to reduce the bioload. Waste water treatment plant process controls will be evaluated using statistical methods to reduce or eliminate the number times the plant strays out of compliance. Also several historic wetlands are to be restored.

19 **Santa Clara Valley Water District**
Regional Integrated Program for Irrigation and Fertilization Management Assistance in Sta. Clara S. Benito Sta. Cruz and Monterey Counties

Cooperating Entity 1: **Pajaro Valley Water Management** Cooperating Entity 2: **Monterey County Water Resources Agency**
Grant Requested: **$1,432,200.00** Cost Match: **$335,000.00** Total Project **$1,767,200.00**

The project will provide irrigation system evaluations, pump tests, and irrigation and fertilization management consultation to participating growers. These services will be supplemented by approximately two educational meetings per county annually, and by the provision of printed materials. Watercourse and soil monitoring for nitrogen content will be conducted.

20 **Sierra Business Council**
Revegetation and Erosion Control for Ski Areas

Cooperating Entity 1: **Integrated Environmental Restoration Services** Cooperating Entity 2: **Northstar-at-Tahoe**
Grant Requested: **$498,905.00** Cost Match: **$98,375.00** Total Project **$597,280.00**

The purpose of this program is to identify,develop, and evaluate improvements in sediment source control techniques, materials and practices for ski slopes/mountainous regions of California and in particular the Truckee River/Lake Tahoe watershed and Mammoth Mountain with outreach to other areas. This is being done in a cooperative manner with ski resorts, Lahontan and other Regional Water Boards, Sierra Business Council, UC Davis researchers, the USFS and private sector entities as partners. The program is intended to be a model for proactive and cooperative development of scientifically validated methodologies for water quality protection where regulators and land managers are partners in the development process and are beneficiaries of the (Guiding Principles/ Handbook)

21 **University of Calfiornia Davis**
Demonstration of Reducing Selenium (Se) and Phosphorus (P) from Agricultural Drainage in Implementation of the Imperial Wetland Site

Cooperating Entity 1: **Imperial Irrigation District 333 East Barioni Blvd. Imperial CA 92251**
Cooperating Entity 2: **UC Cooperative Extension Imperial County Holtville CA 92250**

Grant Requested: **$498,750.00** Cost Match: **$100,000.00** Total Project **$598,750.00**

This project is to demonstrate the efficiency and sustainability of the 68-ac Imperial Wetland site to remove pollutants for implementation of NPS control. Selenium (Se) and phosphrous (P) are importnat pollutants from agriculutral drainage that impair Salton Sea. Removal efficiency and mechanisms of these pollutant by the wetland will be determined by monitoring Se and P concentration and speciation in inflow and outflow, water and pollutant mass balance as well as distribution and partitioning in various compartments. Sustainability of the system will be evaluated. The results will provide critical information and conclusion in using wetland to remediate pollutants thus important to implementation of NPS control or best management practices in improving the impaired waterbodies including the Salton Sea as well as those in the Central Valley , Calfiornia.

22 **University of California Davis**
Quality and the Fate of Organic Carbon in Source Waters and the Interaction with Bromide on DBP Formations in the Delta

Cooperating Entity 1: **Department of Water Resources MWQI Program**
Cooperating Entity 2: **0**

Grant Requested: **$1,158,750.00** Cost Match: **$201,000.00** Total Project **$1,359,750.00**

The proposed is to study the quality and the fate of organic carbon from various sources, and bromide that affect drinking water quality in the Delta by forming DBPs during chlorination process. The source of organic carbon is diverse including imported from upper watersheds, islands drainage and channel production. Important processes (production, degradation and photooxidation) and factors (source, nutrients, temperature, light, salinity and bromide) affecting DBP precursors will be examined by characterizing organic carbon quality changes with bulk parameters as well as molecular level analyses, and DBP formation potentials. The project is to seek critical information on DBP precursors in the Delta that provides a drinking water source for over two-thirds of Californians and provide information for long-term implementation strategy to improve Delta water quality .

23 **Yuba Watershed Foundation**
The Yuba Watershed Council: A Model Of Community Cooperation

Cooperating Entity 1: **The Yuba Watershed Council**
Cooperating Entity 2: **0**

Grant Requested: **$511,000.00** Cost Match: **$84,000.00** Total Project **$597,000.00**

This project will build the functional capacity of the Yuba Watershed Council by: 1) creating a system to organize and catalog all work the members of the Council, and community at large, have performed in relation to watershed projects and studies, 2) collecting and presenting the information within the ARGGIS 8.3 system, available to all stakeholders, 3) enhancing the YWC education and outreach program, 4) creating an inventory of stakeholder skills to help in land management tasks, 5) setting up a watershed Small Land Grant Program, and 6) ensuring long term viability of the Council.

24 **Natural Heritage Institute**
Marsh Creek Fish Passage and Stream Resoration for Adadromous Fish

Cooperating Entity 1: **City of Brentwood**
Cooperating Entity 2: **please see addendum for six other local regional and state partners**

Grant Requested: **$1,482,500.00** Cost Match: **$342,000.00** Total Project **$1,824,500.00**

This project seeks funding to partially remove and modify the Marsh Creek drop structure, replace it with rock weirs, and restore a 1,000 foot section of Marsh Creek to provide passage for anadromous fish and allow access to upstream spawning habitat. The removal of the fish barrier would provide access to approximately 6.5 miles of lower Marsh Creek, Deer Creek, and Sand Creek, including approximately 3 miles of suitable spawning gravels and shaded riparian stream downstreams of and in the Cowell Ranch property (recently acquired by the California State Parks Department).

26 **Stanford University - Utilities Division**
Storm Water Treatment/Detention Demonstration Project for Stanford University

Cooperating Entity 1: **Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP)**
Cooperating Entity 2: **Bay Area Stormwater Management Agencies Association (BASMAA)**

Grant Requested: **$1,031,200.00** Cost Match: **$217,800.00** Total Project **$1,249,000.00**

Stanford University proposes to develop several urban storm water runoff treatment/detention designs for planned campus development to demonstrate an integrated suite of solutions for new and redevelopment construction.The demonstration project will show local communities how they can statisfy new and redevelopment storm water regulation in their cities. Document effectiveness of the project through a monitoring program. Develop phased reports for outreach, education and lessons learned.

27 Irvine Ranch Water District
Natural Treatment Systems

Cooperating Entity 1: **Orange County PF&R Department** Cooperating Entity 2:**0**
Grant Requested: **$1,100,000.00** Cost Match: **$2,853,000.00** Total Project **$3,953,000.00**

The District will construct wetlands within existing , adjacent to, and tributary to existing creek channels to remove pollutants. Dry weather urban runoff, as well as flows from smaller rainstorms, will be diverted into the project wetlands, where contaminant levels will be reduced before the water reaches Upper Newport Bay. The treatment processes takes place naturally using natural beneficial bacterin in the pond soils along with plants such as bulrush and cattails to remove nitrogen from the runoff. Sediment, phosphorous and other pollutants are also reduced in settling bsins within the creek channels.

28 Irvine Ranch Water District
Regional Brine Line

Cooperating Entity 1: **Orange County Water District** Cooperating Entity 2:**0**
Grant Requested: **$1,000,000.00** Cost Match: **$19,000,000.00** Total Project **$20,000,000.00**

Currently, IRWD and the City of Tustin operate three treatment facilities that result in a brine discharges to the Orange County Sanitation District (OCSD) which ultimately discharges into the ocean. In the near future, IRWD and Orange County Water District plan to construct the Irvine Desalter, which will result in a brine discharge into the sewer system. New State regulations are now limiting the discharge of shallow groundwater into surface waters. Consequently, it is becomming a greater importance to discharge treatment plant brines and other salt laden water into a brine disposal system that ultimately discharges into the ocean. The Regional Brine Line will create a conduit to deliver non sewage brine and other salty waters directly into the OCSD ocean outfall.

29 Irvine Ranch Water District
Irvine Desalter Project

Cooperating Entity 1: **Orange County Water District** Cooperating Entity 2:**0**
Grant Requested: **$1,200,800.00** Cost Match: **$16,629,200.00** Total Project **$19,630,000.00**

Water within portions f the Orange County Groundwater Basin contains high levels of minerals and nitrates, which resulted from natural geologic conditions and past agricultural practics, which has impaired its use for municipal purposes. With the recent restrictions on Colorado River water for California, all local groundwater supplies have become more critical as popuation and water demand continue to increase. This groundwaer slupply is an essential part of Orange County's future water supply. The Irvine Desalter Project will pump the mineral rich water to a reverse osmosis water treatment plant for demineralization prior to make it suitable for domestic use. The project will yield approximately 5,400 acre-feet of domestic water annually.

30 Irvine Ranch Water District
Selenium Removal Pilot Project

Cooperating Entity 1: **Orange County** Cooperating Entity 2:**0**
Grant Requested: **$200,000.00** Cost Match: **$360,000.00** Total Project **$560,000.00**

The Selenium Removal Pilot Project will construct a demonstration-level submerged wetlands which will remove selenium from surface water. The pilot wetlands will be located in the selenium impacted area of the San Diego Creek watershed near Peters Canyon Wash. The purpose of the pilot wetlands is to demonstrate the efficacy of selenium removal in an environmentally sensitive manner.

31 Glenn County Resource Conservation District
Stony Creek Watershed Assessment and Watershed Monitoring Program

Cooperating Entity 1: **Colusa County Resource Conservation District** Cooperating Entity 2:**University of California Cooperative Extension**
Grant Requested: **$764,000.00** Cost Match: **$8,500.00** Total Project **$755,500.00**

The Glenn County Resource Conservation District is seeking funding to complete an watershed assessment, initiate a watershed monitoring program and begin implementation projects on the Stony Creek Watershed.

34 Western Shasta Resource Conservation District
Cow Creek Water Quality Enhancement Project

Cooperating Entity 1: **Cow Creek Watershed Management Group** Cooperating Entity 2:**California Department of Fish and**
Grant Requested: **$2,721,849.00** Cost Match: **$143,632.00** Total Project **$2,860,031.00**

The Cow Creek Water Quality Enhancement Project includes four projects: 1) Fish screen & ladder feasibility studies and demonstration construction project; 2) Irrigation ditch piping/lining feasibility studies and demonstration construction project; 3) Tailwater collection pond design and construction; and 4) Bank stabilization project. These projects are to improve water quality, water supply and ecosystem quality. They are the first step in addressing action items outlined in the Cow Creek Watershed Assessment and the successful completion of the projects will pave the way for additional enhancement projects to be completed in the watershed.

35 **Family Water Alliance**
Sacramento River Fish Screen Program Watershed and Fisheries Protection

Cooperating Entity 1: **National Marine Fisheries Service** Cooperating Entity 2: **California Department of Fish and**
Grant Requested: **$2,481,882.00** Cost Match: **$0.00** Total Project **$2,481,882.00**

The goal of the Sacramento River Small Diversion Fish Screen Program is to prevent entrainment mortality of juvenile fish species by installing state-of-the-art, self-cleaning fish screens on Sacramento River and its tributaries water diversions. This includes planning and design of screens, obtaining permits, construction, installation, monitoring, and funding, and outreach and education. Project construction will consist of three distinct phases: 1) pre-project planning, conceptual design, and organization, 2) custom manufacturing, installation, and operations, and 3) post-installation evaluation, monitoring, and further refinement. Throughout this program, landowners will receive technical, educational, and financial assistance in all phases of screening.

36 **UPPER PUTAH CREEK STEWARDSHIP**
PROGRAM COORDINATOR FOR THE UPPER PUTAH CREEK STEWARDSHIP

Cooperating Entity 1: **Middletown Rancheria Tribal Environmental Office** Cooperating Entity 2: **East Lake Resource Conservation District**
Grant Requested: **$232,685.00** Cost Match: **$25,200.00** Total Project **$251,885.00**

In conjuction with Middletown Rancheria, establish a watershed awareness and educational outreach center to be staffed by a Program Coordinator who will initiate training of volunteer monitors (both Tribal and local citizen) to collect ambient water quality data, design and implement watewrshed activities in local schools, and develop presentations about BMPs for local farmers and growers. The project will build local capacity to protect and enhance local and Tribal cultural and natural resources by developing a native plant nursery to grow culturally significant riparian plants for county wide restoration projects, creating an educational presentation highlighting the importance of such plants in the ecosystem and their bank stabilizing qualities. Through facilitator driven public meetings invesigate the feasibility of protecting properties in the source areas of the watershed from future degredation due to development or inappropriate

37 **Placer County Flood Control and Water Conservation District**
Secret Ravine Floodplain Restoration Project

Cooperating Entity 1: **Sacramento Area Flood Control** Cooperating Entity 2: **Sacramento County Department of Water Resources**
Grant Requested: **$2,121,670.00** Cost Match: **$4,306,770.00** Total Project **$6,428,440.00**

The proposed Secret Ravine Floodplain Restoration project includes restoration activities at a 10-acre and a 30-acre site that collectively will provide significant flood management, water quality, habitat enhancement, passive recreation, and environmental education amenities to the Dry Creek Watershed in the Bay-Delta solution area. Restoration techniques will include the re-establishment of secondary channels, reconnection of the channel to the historic floodplain, restoration of the native riparian forest community, enhancement of spawning habitat for salmon and steelhead, on-going monitoring and adaptive management techniques, public access for passive recreation and interpretive signage for environmental education.

39 **Newport Harbor Nautical Museum**
Statewide Clean Water Education Program Featuring Internet Streaming Video and Online Testing

Cooperating Entity 1: **Orange County CoastKeeper** Cooperating Entity 2: **Newport-Mesa Unified School District**
Grant Requested: **$1,929,000.00** Cost Match: **$272,800.00** Total Project **$2,198,800.00**

A statewide Watershed Protection and Nonpoint Source Pollution Control educational program that will maximize available funding by using the power of Internet distance learning, online video programming, annimation, testing and statewide measurement..

40 **Adopt-A-Watershed**
Adopt-A-Watershed Bay Area Leadership Development

Cooperating Entity 1: **Linking San Francisco** Cooperating Entity 2: **San Francisco Rec and Parks Dept.**
Grant Requested: **$487,259.00** Cost Match: **$73,089.00** Total Project **$560,348.00**

The AAW Leadership Development Program trains community teams to design, implement, and sustain collaborative school/community programs focused on K-12 place-based learning in local watersheds. Students do significant work in the watershed that addresses priority issues identified in local plans and reflects regional desires of the SWRCB and CALFED.

43 **The Bay Foundation of Morro Bay**
Morro Bay National Estuary Program's Volunteer Monitoring Program

Cooperating Entity 1: **Central Coast Regional Water Quality Control Board** Cooperating Entity 2: **Department of Health Services**
Grant Requested: **$286,300.00** Cost Match: **$165,000.00** Total Project **$451,300.00**

The goal of the Morro Bay National Estuary Program's Volunteer Monitoring Program (VMP) is to promote a citizen-based monitoring effort to track long-term trends in the watershed. The VMP's efforts are a primary component of the monitoring for implementation of TMDLs currently under development for pathogens, dissolved oxygen and nutrients, and sedimentation in Los Osos and Chorro Creeks and Morro Bay. VMP monitoring is also important for assessing effectiveness of actions laid out in the Comprehensive Conservation and Management Plan for Morro Bay.

44 **San Joaquin County Resource Conservation District**
The Lower Mokelumne River Watershed Stewardship Plan

Cooperating Entity 1: **San Joaquin County and Delta Water Quality Coalition** Cooperating Entity 2: **City of Lodi**

Grant Requested: **$4,605,049.00** Cost Match: **$1,360,000.00** Total Project **$5,955,049.00**

This project will protect and enhance quality and quantity of riparian habitat and biological resources in the Lower Mokelumne River watershed through restoration, enhancement, maintenance, and monitoring programs. Moreover, it will enhance water quality protection by implementing self-assessment programs for agricultural producers and urban and suburban homeowners in the watershed and by developing a market-based incentives program for winegrape growers. Furthermore, it will determine impacts of these programs on downstream water quality through strategic water sampling in the Lower Mokelumne River and assist local stakeholders in an ongoing effort to identify and prioritize other water quality issues and develop and implement education programs to deal with these issues.

45 **South Yuba River Citizens League (SYRCL)**
IMPACT: Using Technology To Restore Anadromous Fish in the Lower Yuba River

Cooperating Entity 1: **Department of Water Resources Fish passage Improvement Program** Cooperating Entity 2: **0**

Grant Requested: **$386,000.00** Cost Match: **$0.00** Total Project **$386,000.00**

SYRCL is proposing to apply a Decision Support System (DDS) called IMPACT to the fish passage improvement project at Daguerre Point Dam on the Lower Yuba River. IMPACT is a software tool used to assist decision makers in the evaluation of the environmental impact of water related projects. The software is suited for comparing different restoration alternatives/scenarios to assist decision makers in prioritizing between differnet alternative solutions.

47 **South Yuba River Citizens League (SYRCL)**
REPLICATING A SUCCESS STORY: HOW TO SET UP SUSTAINABLE CITIZEN MONITORING PROGRAMS

Cooperating Entity 1: **SWRCB Clean Water Team** Cooperating Entity 2: **Sierra Nevada Alliance**

Grant Requested: **$922,000.00** Cost Match: **$0.00** Total Project **$922,000.00**

The goal of the project is to restore Sierra watersheds through building a Sierra-wide network of well trained, local,technically proficient, citizen water quality monitors. To accomplish this SYRCL will produce a suite of data-base management, waterquality monitoring training and fundraising tools designed to empower impoverished communities throughout the Sierra to improve the stewardship of their watersheds. These tools will include water quality monitoring conferences, a training DVD in spanish and english, community-based fundraising manuals and courses, a re-granting process for monitoring equipment to monitoring groups and an assessment of citizen based water monitoring programs throughout the state. SYRCL will hire staff and train watershed groups Sierra-wide in water quality monitoring and organizational sustainability in targeted watersheds and create conduits for scientific data and information to be shared appropriately among agencies and interest groups.

48 **South Yuba River Citizens League (SYRCL)**
RESTORING THE PAST: YUBA GOLDFIELDS RESTORATION PILOT PROJECT

Cooperating Entity 1: **Bureau of Land Management** Cooperating Entity 2: **Ca.Dept of Fish and Game**

Grant Requested: **$700,000.00** Cost Match: **$0.00** Total Project **$700,000.00**

The project will identify factors limiting target riparian and aquatic species and habitats on the Gold Fields reach of the Lower Yuba River. It will then identify the functions required to enhance and sustain target riparian and aquatic species and habitats on this reach and develop a pilot project for rehabilitating those functions on public lands along the Goldfields. Finally the project will implement the plan on a small scale and monitor the success of the pilot project to inform and design larger, long term restoration projects in the

49 **Placer County Planning Department**
Spears Ranch Habitat Restoration Project

Cooperating Entity 1: **Trust for Public Land** Cooperating Entity 2: **0**

Grant Requested: **$184,000.00** Cost Match: **$108,000.00** Total Project **$292,000.00**

The project will support the restoration of the Spears Ranch, a 961 acre property located along Coon Creek in western Placer County. Channel erosion, bank scour and bank retreat predominate this 2.5 mile section of Coon Creek on the property. Planned work includes sedimentation control, riparian corridor enhancement including removal of non-native species, and aquatic habitat and streambed restoration.

50 **Placer County Planning Department**
Placer Watersheds GIS

Cooperating Entity 1: **Sierra Community College** Cooperating Entity 2: **Chico State University**

Grant Requested: **$114,750.00** Cost Match: **$36,750.00** Total Project **$151,500.00**

The project will provide one central location where watershed groups, agencies and local governments in Placer's watersheds can list the GIS data sets they currently have and will produce in the future. The project will strengthen both the individual and colelctive power of local governments, agencies, organizations and citizen's groups and to help them recognize regional resource opportunities, eliminate unnecssary duplication, and make joint decisions.

51 **Department of Environmental Horticulture University of California Davis**
Evaluating BMP effectiveness to reduce volumes and improve quality of runoff from urban environments

Cooperating Entity 1: **University of California Cooperative Extension Orange County** Cooperating Entity 2: **0**

Grant Requested: **$3,327,170.00** Cost Match: **$1,377,829.00** Total Project **$4,704,999.00**

This project will quantify the effectiveness of best management practices implemented in residential landscapes in reducing dry season runoff volume and reducing pesticides, drinking water pollutants, and mercury loads in the runoff. This study takes place in Sacramento and Orange Counties and will include an economic assessment of the cost effectiveness of BMPs utilized to reduce pollution. The information obtained will be transferred to the public through local, state, and regional organizations and programs.

52 **Los Osos Community Services District**
Completing Final Design for Los Osos Community Services District Wastewater Facilities Project

Cooperating Entity 1: **Morro Bay National Estuary Program** Cooperating Entity 2: **Regional Water Quality Control Board Central Coast Region 3**

Grant Requested: **$3,000,000.00** Cost Match: **$2,900,000.00** Total Project **$5,900,000.00**

A state-of-the-art wastewater treatment facility will enable the community of Los Osos Baywood Park to achieve and maintain the water quality standards mandated by the RWQCB, protect public health, and restore and protect water quality and the environment of coastal waters and the Morro Bay Estuary by abandoning the use of septic systems. Also recycled water will be produced to supplement the community's water suppy. reduce its dependence on groundwater supplies, and minimize the need to import water

53 **County of Santa Cruz Department of Public Works**
Reduce Pesticide Use in Road and River Levee Maintenance

Cooperating Entity 1: **Ecology Action** Cooperating Entity 2: **Integrated Pest Management Advisory Group**

Grant Requested: **$450,000.00** Cost Match: **$100,000.00** Total Project **$550,000.00**

The purpose of the project is to significantly reduce the application of pesticides in Santa Cruz County road and river levee maintenance with emphasis on protecting riparian and aquatic areas and water quality. This will be accomplished three ways: 1) roadside vegetation will be mapped, categorized and a strategy developed for transition to no spray, following other successful models in the west; 2) a voluntary no-spray program for residents with road frontage will be improved and expanded; and 3) a demonstration project will be conducted to test the effectiveness of using livestock to control vegetation on sections of the Pajaro River levee.

54 **Natural Heritage Institute**
Guadalupe River Basin: Stewardship and Restoration of an Urban Stream

Cooperating Entity 1: **Guadalupe-Coyote Resource Conservation District** Cooperating Entity 2: **0**

Grant Requested: **$1,000,000.00** Cost Match: **$65,000.00** Total Project **$1,065,000.00**

This project seeks to complement several existing plans towards the ultimate goal of sustainable management of the Coyote Creek, Stevens Creek, and Guadalupe River watersheds. Historical ecology, grassroots monitoring, and collaborative efforts between several existing organization and agencies will more effectively and completely manage the watersheds for all beneficial uses.

55 **Natural Heritage Institute / Sierra**
Ditches and Flumes: The Sierra Waterscape in the 21st Century

Cooperating Entity 1: **Sierra Nevada Alliance** Cooperating Entity 2: **University of California-Berkeley**

Grant Requested: **$305,500.00** Cost Match: **$0.00** Total Project **$305,500.00**

The Natural Heritage Institute's Sierra Office (NHI/Sierra), Sierra Nevada Alliance, and University of California-Berkeley are partnering with citizen action groups and local agencies in a community-initiated project to address the water demands of the Sierra's fast-growing population while optimizing the historical, recreational, and environmental value of the Sierra's waterscape. The project will inventory the more than 6,000 miles of ditches and flumes that form the backbone of water supply for 11 rural counties in the Sierra Nevada—most of which are classified by CALFED as financial hardship counties—and develop a model-based participatory, transparent planning approach for addressing the region's water use conflicts, including environmental needs.

56 **Natural Heritage Institute / Sierra**
Integrating Groundwater into Watershed Management in the Sierra

Cooperating Entity 1: **Sierra Nevada Alliance** Cooperating Entity 2: **0**

Grant Requested: **$685,000.00** Cost Match: **$0.00** Total Project **$685,000.00**

This project is an on-the-ground, stakeholder-driven process to develop and implement promising management strategies for ameliorating water quality problems and riverine health impacts associated with groundwater withdrawals. This project will work closely with grassroots watershed groups to increase local capacity to address surface-groundwater disputes through integrated management strategies.

57 **The Sierra Fund in partnership with the Natural Heritage Institute**
The Sierra Water Trust: Restoration of In-stream flows in Sierra streams

Cooperating Entity 1: **Natural Heritage Institute** Cooperating Entity 2:**The Sierra Fund**
Grant Requested: **$1,308,000.00** Cost Match: **$100,000.00** Total Project **$1,408,000.00**

This project will develop a participatory strategy for using water rights to restore and protect streams in the Sierra, initiate several pilot projects to acquire water rights in critical watersheds, and develop the institutional and legal arrangements necessary to launch a Sierra Water Trust for coordinating, acquiring, and managing trust water for the Sierra. This project will be co-managed by The Sierra Fund and the Natural Heritage Institute's Sierra Office, and is designed to bring together a range of interests and expertise from state and federal resource agencies to water districts to land trusts, and to broadly seek the wisdom and experience of watershed groups and Sierran citizens towards the overall goal of restoring instream flows and declining aquatic habitats in the Sierra.

58 **American Rivers**
Flow through the Window: Restoring Sierran Rivers through FERC Relicensing

Cooperating Entity 1: **Natural Heritage Institute** Cooperating Entity 2:**South Yuba River Citizen's League**
Grant Requested: **$412,000.00** Cost Match: **$83,500.00** Total Project **$495,500.00**

This project will help restore Sierra Nevada rivers by providing local watershed stakeholders assistance to more effectively advocate for river restoration and community enhancement measures in Federal Energy Regulatory Commission hydropower dam relicensing proceedings. Project partners will develop training materials, conduct training workshops and provide ongoing support in key watersheds affected by hydropower dams.

60 **Inland Empire Utilities Agency**
Upper Chino Creek Wetlands

Cooperating Entity 1: **Orange County Water District** Cooperating Entity 2:**0**
Grant Requested: **$4,220,000.00** Cost Match: **$1,060,000.00** Total Project **$5,280,000.00**

Construct wetlands to reduce nutrients in creek flow, reduce pathogens and salinity if possible. Inocorporate appropriate recreation and eductional elements as well as wildlife habitat.

61 **Inland Empire Utilities Agency**
RP-5 Renewable Energy Digester Expansion Project

Cooperating Entity 1: **Milk Producers Council** Cooperating Entity 2:**California Energy Commission**
Grant Requested: **$4,000,000.00** Cost Match: **$11,000,000.00** Total Project **$15,000,000.00**

Expansion of the existing Renewable Energy Digester Facility located at the IEUA Regional Plant No. 5. The purpose of the project is to increase the elimination of a significant nonpoint source of pollution related to the impact of dairy manure on the groundwater and surface water.

62 **Inland Empire Utilities Agency**
Chino Creek Park: Stormwater Management Project

Cooperating Entity 1: **Orange County Water District** Cooperating Entity 2:**U.S Fish and Wildlife Service**
Grant Requested: **$1,431,000.00** Cost Match: **$1,030,000.00** Total Project **$2,461,000.00**

Project will design, construct, and implement 16 acres of enhanced wetlands entering Chino Creek Reach 1, which is listed on the 303(d) list of imparied water bodies within the Chino Basin Watershed. Project will provide multiple water quality benefits with enhanced wetlands, restored ecological function and habitat values for endangered species, create environmental values to an degraded site, and provide an educational resource to a dramatically growing urban area. Project will monitor and dramatically reduce pollutants entering the Chino Creek due to flooding from urban, dairy, and agricultural stormwater/runoff.

63 **Inland Empire Utility Agency**
Fate Persistence and Treatment of Dairy Manure Derived Pharmaceuticals in the Santa Ana River Watershed (Region 8)

Cooperating Entity 1: **George E. Brown Jr. Salinity Laboratory USDA ARS** Cooperating Entity 2:**San Diego State University**
Grant Requested: **$1,115,000.00** Cost Match: **$0.00** Total Project **$1,115,000.00**

Dairy manure in the Chino Basin likely contains pharmaceutically active compounds. Dissemination of these compounds in the environmental may pose a serious threat to soil and groundwater supplies, and ultimately human health. A research plan has been designed to provide knowledge, tools, and strategies to assess the fate, persistence, treatment, and transport of dairy manure derived pharmaceuticals in the Santa Ana River watershed and Chino Basin.

71 **Calleguas Municipal Water District**
Calleguas Regional Salinity Management Project

Cooperating Entity 1: **United States Bureau of Reclamation** Cooperating Entity 2: **Camrosa Water District**
Grant Requested: **$5,000,000.00** Cost Match: **$6,958,000.00** Total Project **$11,958,000.00**

The proposed project is designed to manage high salinity water use and disposal. The project consists of a pipeline system to transport both highly treated municipal wastewater and brine concentrate to other areas for direct use or ocean discharge through an existing ocean outfall. Over time, the project would result in a net reduction in the salinity of surface waters and groundwaters within the Calleguas Creek watershed in Ventura County and increase water supply reliability for the region through the facilitation of local water supply enhancement projects.

72 **Gateway Cities Partnership Inc. a 501C(3) corporation established in 1997**
Integration of NPS Pollution Source Reduction and Water Conservation Management Measures into Brownfields Redevelopment Projects

Cooperating Entity 1: **USC Center for Economic Development** Cooperating Entity 2: **City of Huntington Park/Redevelopment Agency**
Grant Requested: **$1,111,500.00** Cost Match: **$331,500.00** Total Project **$1,443,000.00**

Programmatic model for integrating local watershed management, regional water quality and supply enhancement priorities into Brownfields redevelopment projects: (1) builds local capacity for implementation of watershed management practices through a demonstration project, (2) identifies opportunities & constraints to NPS pollution prevention, (3) emphasizes nonstructural approaches & conjunctive uses, (4) promotes self-compliance & voluntary adoption of good housekeeping practices by residents & commercial operations, (5) stresses local leadership involvement & neighborhood-based stewardship, (6) supports citizen water quality monitoring in cities in which there has been little past success, (7) forges a strong and effective pollution prevention partnership with residents, developers & community organizations and (8) expands research data on urban management measures & vegetated treatment systems.

73 **Fall River Resource Conservation District**
Upper Big Bear Meadow Restoration

Cooperating Entity 1: **USDA Natural Resources Conservation District** Cooperating Entity 2: **CA Department Fish & Game**
Grant Requested: **$495,849.00** Cost Match: **$307,718.00** Total Project **$803,567.00**

The re-channelization of Bear Creek in the 1960s caused extensive destabilization of the stream banks resulting in excessive sediment being transported into upper Fall River. The down cutting created incised banks 12 - 18 feet in depth and removed much of the native vegetation. The increased sediment left Fall River as a 303d listed impaired waterway and threatens the habitat of native rainbow trout. The project is intended to stabilize the eroding stream banks and restore the connection of the channel and floodplain. Results of the project will increase sediment retention, raise the water table, and improve fish habitat and passage conditions in an important upper Bear Creek meadow.

74 **Cottonwood Creek Watershed Group**
Continuation of Cottonwood Creek Watershed Group

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **U S Fish and Wildlife Service**
Grant Requested: **$225,708.00** Cost Match: **$8,000.00** Total Project **$233,708.00**

The grant will be used to support the watershed coordinator role in facilitating activies in the watershed and educating landowners/stakeholders /participating agecies. Funds will be used for developing a web site (subcontract) ; continuing watershed newsletters (salary, publishing); porviding education on resource topics via stakeholder meetings/workshops; and supporting the coordinator position (salary) Covering the expenses of rent, utilities, supplies and equipment

75 **Cottonwood Creek Watershed Group**
Cottonwood Creek Watershed Management Plan

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **U.S. Fish and Wildlife Service**
Grant Requested: **$1,202,000.00** Cost Match: **$0.00** Total Project **$1,202,000.00**

The proposed Watershed Management Plan (WMP) will build on the recently completed Cottonwood Cr. Watershed Assessment (WA) and the pending Watershed Program. The WMP will fill WA- and Watershed Program-identified data gaps, identify restoration objectives in cooperation with stakeholders, formulate actions to achieve objectives, and enable Cottonwood Creek Watershed Group to coordinate planned and ongoing restoration and monitoring activities. WMP components include Ag Management, Forestry Management, Hydrology, and Biological/Fisheries.

76 **Cottonwood Creek Watershed Group**
Cottonwood Creek Erosion Inventory

Cooperating Entity 1: **U.S.F.S. Shasta-Trinity National Forest** Cooperating Entity 2: **0**
Grant Requested: **$257,700.00** Cost Match: **$0.00** Total Project **$257,700.00**

The purpose of this proposal is to conduct an erosion inventory over the entire Cottonwood Creek watershed. The inventory would be led by a licensed Registered Professional Forester with a strong background in both erosion inventories and erosion control projects. The inventory is estimated to take 3 years, at the completion, an erosion control project would be implemented and monitored for 2 years. The inventory will also serve as a planning document for future erosion control projects in the watershed.

77 **Cottonwood Creek Watershed Group**
Cottonwood Creek Watershed Group Continues

Cooperating Entity 1: **U.S. F.S.-Shasta-Trinity National Forest** Cooperating Entity 2: **Department of Fish and Game**
Grant Requested: **$329,600.00** Cost Match: **$64,100.00** Total Project **$393,700.00**

CCWG and its partners would like to expand the potential for education and reaching students and their families by providing a natural resources camp within the watershed. It would be a perfect compliment to the Kids for our Creek program and one of the next logical steps to create, encourage, and sustain watershed awareness and stewardship and is aligned with the goals set forth in the Kids for our Creek program. This proposal would also include providing education assistance to the schools within the watershed via maintaining the watershed education coordinator position, as well as interacting on educational issues with adjacent watersheds in the

78 **Monterey Bay Sanctuary Foundation**
FARM WATER QUALITY PLANNING AND IMPLEMENTATION

Cooperating Entity 1: **University of California Cooperative Extension** Cooperating Entity 2: **Coaltition of Central Coast County Farm Bureaus**
Grant Requested: **$2,343,282.00** Cost Match: **$581,123.00** Total Project **$2,923,405.00**

The Farm Water Quality Planning and Implementation Project includes the support and establishment of industry-led local watershed working groups for irrigated agriculture producers, water quality education and technical training, and on-farm management practice implementation. This project addresses nonpoint source pollution impacts from irrigated agriculture through a comprehensive collaboration with the Monterey Bay National Marine Sanctuary, the Coalition of Central Coast County Farm Bureaus, University of California Cooperative Extension, and USDA Natural Resources Conservation Service. In prioritized impaired watersheds throughout the Central Coast, we will continue the establishment of Farm Bureau watershed working groups, deliver Farm Water Quality Planning Short Courses and tailgate workshops to producers, as well as implement water quality protection practices on agricultural lands.

79 **Regents of the University of California- Santa Barbara**
East Campus Storm water Management- UCSB

Cooperating Entity 1: **State and Consumer Services Agency** Cooperating Entity 2: **Couty of Santa Barbara**
Grant Requested: **$1,067,724.00** Cost Match: **$266,932.00** Total Project **$1,334,656.00**

In response to increased discharge associated with the new construction on the east side of UCSB's campus we propose to restore natural wetland for stormwater mitigation. This should decrease nutrient loading in both Goleta Bay and Campus Lagoon.

82 **City of Chico**
Chico Urban Streams Alliance Clean Creeks Project

Cooperating Entity 1: **Big Chico Creek Watershed Alliance** Cooperating Entity 2: **Butte Environmental Council**
Kennedy/Jenks Consultants

Grant Requested: **$561,000.00** Cost Match: **$336,000.00** Total Project **$897,000.00**

The Clean Creeks project will implement a broad-based and comprehensive urban runoff program, including a pre-treatment and sediment settling basin for a wetlands/pond complex, public outreach, citizen monitoring and structural best management practice performance evaluation. The objectives of the project are to reduce pollution in urban runoff that flows into Chico's streams and the Sacramento river by removing sediments and flotables impacting a wetland; improving the community's understanding of the problem and its solutions; changing individual behavior; improving the technical efficacy of post-costruction runoff management; and fostering a collaboration that maximizes the likelihood of success of this and future resource conservation projects.

84 **CITY OF SIERRA MADRE**
City of Sierra Madre Low Flow Diversion and Treatment Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$321,865.00** Cost Match: **$43,485.00** Total Project **$365,350.00**

The proposed project would entail a comprehensive program of water quality mitigation measures. The program would enable the City of Sierra Madre to quantify and reduce load allocations for trash-related TMDL's while effectively implementing BMP's associated with catch basins and other necessary construction .

86 **Friends of Sausal Creek**
Sausal Creek Watershed Restoration and Education Project

Cooperating Entity 1: **City of Oakland Dept Public Works Environmental Services Div.** Cooperating Entity 2: **Alameda County Flood Control and Conservation District**
Grant Requested: **$408,000.00** Cost Match: **$373,000.00** Total Project **$781,000.00**

The Friends of Sausal Creek proposes to expand their urban stream restoration program; expand their environmental education program with Oakland Unified Students as they learn restoration techniques in the field; improve and increase aquatic and terrestrial habitats throughout the watershed; protect locally threatened species and improve water quality. The benefits to the community include increasing awareness and appreciation of Sausal Creek, reducing non-point source pollution, deepening community partnerships, and restoring native flora and fauna.

87 **Santa Clara Valley Water District**
Real Time Continuous Monitoring of Bromide and Nutrients at H.O. Banks Pumping Plant and San Joaquin River at Vernalis

Cooperating Entity 1: **Department of Water Resources** Cooperating Entity 2: **California Urban Water Agencies**
Grant Requested: **$274,556.00** Cost Match: **$128,420.00** Total Project **$402,976.00**

This project is to purchase and install on-line ion chromatographs at critical points in the Delta and State Water Project to continuously measure anions such as bromide, chloride, phosphate and nitrate. The primary objective is to allow utilities, resource managers, and researchers real-time access to high frequency water quality data to make operational decisions, track changes over time and populate water quality models. This project will expand upon existing monitoring programs at H.O. Banks Pumping Plant at the head of the State Water Project and at Vernalis on the San Joaquin River.

88 **Upper San Gabriel Valley Municipal Water District**
Infrastructure Replacement Funding Request

Cooperating Entity 1: **San Gabriel River Water Committee** Cooperating Entity 2: **0**
Grant Requested: **$4,088,000.00** Cost Match: **$1,022,000.00** Total Project **$5,110,000.00**

The San Gabriel River Water Committee currently uses uncovered ditches, originally constructed over 100 years ago, to convey water to surface water treatment plants. We desire to construct a gravity-feed buried pipeline to replace this existing system to minimize potential for vandalism and liability issues associated with an open ditch.

89 **Cachuma Resource Conservation District**
San Antonio Creek Coordinated Resource Management Plan (CRMP) Implementation

Cooperating Entity 1: **University of California Cooperative Extension** Cooperating Entity 2: **Natural Resources Conservation**
Grant Requested: **$841,500.00** Cost Match: **$148,500.00** Total Project **$990,000.00**

A draft coordinated resource management plan (CRMP) has been completed and is undergoing local review by a project Steering Committee. The project will be submitted for formal review by the State Water Resources Control Board by June 2003. This project addresses non-point sources of pollution, flooding, wetland degradation, endangered species management, and associated natural resource concerns. The project includes a detailed sediment report. Excessive sedimentation, and its effect on the resources, is the principal concern in this watershed.

91 **Earth Resource Foundation**
Working At the Watershed Level Science & Stewarship Program & ERF High School Clubs

Cooperating Entity 1: **County Of Orange** Cooperating Entity 2: **Southern California Coastal Water Research Project**
Grant Requested: **$262,500.00** Cost Match: **$97,000.00** Total Project **$359,500.00**

Working At the Watershed Level Science and Stewarship program is composed of several modules from basic understanding of the importance of a healthy watershed, to urban refuse collection, sorting, data collection, source identification; to bioassessment. This program enhances the teachers opportunity to involve the students in real science and evaulate the effects of pollution and development in their communities and watershed. The ERF High School clubs take the findings from the science program and implement change (BMP's) in their schools, communities and watersheds, including being the workforce for local restoration projects.

92 **Executive Partnership for Environmental Resources Training (ExPERT) Inc**
Community Water-Use Efficiency Education and Training (WET) Project

Cooperating Entity 1: **City of Compton Municipal Water Department** Cooperating Entity 2: **West and Central Basin Municipal Water Districts**
Grant Requested: **$755,200.00** Cost Match: **$151,000.00** Total Project **$906,200.00**

This proposed Community Water Education and Training (WET) Project addresses specific CalFed Watershed Protection Program priorities. The WET project provides a cost-effective and innovative approach to addressing critical problems at the grassroots level by involving the community in the design, development, and implementation of collaborative projects that support education and outreach, build local community capacity, and achieve increased water-use efficiency and conservation.

93 **Bureau of Land Management**
Cosumnes River Preserve Management Plan

Cooperating Entity 1: **The Nature Conservancy** Cooperating Entity 2: **California Department of Fish and**
Grant Requested: **$692,150.00** Cost Match: **$0.00** Total Project **$692,150.00**

Develop a comprehensive and coordinated management plan for all landowners on the Cosumnes River Preserve. This plan define goals and objectives, establish monitoring protocols for success, meet NEPA/CEQA for landowners and create guide for future management of the Preserve. This guide will enable the Preserve partners to better coordinate and cooperate in planned actions for the Cosumnes River Watershed.

94 **Association of Bay Area Governments (ABAG)**
Bay Area macroinvertebrates: improving tools for stream assessment and management

Cooperating Entity 1: **Bay Area Stormwater Management Agencies Association** Cooperating Entity 2: **0**

Grant Requested: **$649,000.00** Cost Match: **$71,000.00** Total Project **$712,000.00**

Regulators, local agencies and watershed groups in the Bay Area recognize the need for improving biological indicators of watershed and stream condition, and are using standardized protocols to collect community data for benthic macroinvertebrates throughout the region. The proposed activities will result in improved regional guidance for interpreting the available data, improved watershed assessments throughout the region, and models for local managers and creek groups in designing future assessments.

95 **O'Neill Sea Odyssey**
TEACHING WATERSHEDS

Cooperating Entity 1: **O'Neill Sea Odyssey** Cooperating Entity 2: **Team O'Neill**

Grant Requested: **$424,400.00** Cost Match: **$230,000.00** Total Project **$654,400.00**

TEACHING WATERSHEDS will provide underserved youth the understanding, motivation and leadership in watershed protection, by leveraging their interest in ocean protection. By teaching these youth about the ocean and their own watersheds, they will be motivated to protect the latter in order to protect the former.

96 **Solano County Water Agency**
Community-based Restoration of Lower Putah Creek Watershed

Cooperating Entity 1: **PCDC SLEWS FARMS UCD Audubon** Cooperating Entity 2: **#REF!**

Grant Requested: **$4,843,627.00** Cost Match: **$1,112,841.00** Total Project **$5,956,468.00**

This project would continue the Adopt-A-Reach community-based restoration program, the U.C. Davis nestbox program, the Putah Creek Discovery Corridor coordinated outreach for public lands, the FARMS/SLEWS hands-on restoration opportunities for urban students, and implement priority restoration projects at Winters Putah Creek Park in cooperation with the Winters Putah Creek Park Committee and California Audubon. It would improve coordination among parters with the development of a common web-based calendar/journal and other web site enhancements. The project would also fund priority fish passage including fish/riparian habitat restoration at over 30

97 **East Valley Resource Conservation District**
Big Bear Lake Sediment Load Reduction Program

Cooperating Entity 1: **U.S.F.S. San Bernardino National Forest** Cooperating Entity 2: **Big Bear Municipal Water District**

Grant Requested: **$563,550.00** Cost Match: **$99,450.00** Total Project **$663,000.00**

The Big Bear Lake Sediment Load Reduction Program will conduct erosion control projects to reduce primary sources of sediment entering Big Bear Lake is a listed 303(d) impaired water body. The pollutants being addressed are siltation/sedimentation and nutrients. This project will be done in cooperation with the U.S. Forest Service's Best Management Practices Plan. The program will also incorporate input and assistance from the local community along with education of non-point source pollution.

99 **Pit River Watershed Alliance**
Pit RCD Watershed Management Project

Cooperating Entity 1: **North Cal-Neva Resource Conservation and Development** Cooperating Entity 2: **Pit RCD**

Grant Requested: **$305,000.00** Cost Match: **$672,750.00** Total Project **$977,750.00**

This proposal seeks funding for a watershed coordinator for the Pit RCD. The services are greatly needed in this underserved Resource Conservation District. Two restoration projects/programs will help the RCD gain capacity and momentum, while providing demonstrations of riparian restorations that help improve water quality.

101 **University of California Sea Grant Extension Program Davis**
Comprehensive Assessment and Analysis of Humboldt Bay Water Quality and Fecal Contamination

Cooperating Entity 1: **Humboldt State University** Cooperating Entity 2: **Humboldt Bay Shellfish Technical Advisory Committee**

Grant Requested: **$376,332.00** Cost Match: **$81,400.00** Total Project **$457,732.00**

This project occurs over three years. The first year, real time, water quality stations recording temperature, conductivity, turbidity, depth, pH, dissolved oxygen, and chlorophyll a floresecense will be established. The second year, water quality monitoring will continue and a fecal contamination study with citizen monitoring will be completed. Third year activities include water quality monitoring and organization of a Humboldt Bay and Watershed Symposium through a community based steering commmittee organized by the project director and staff, and project personnel. The project includes substantial match as required by Prop. 13, Coastal NPS program.

102 **Orange County Water District (OCWD)**
Mill Creek Diversion to Prado Wetlands for Water Quality Enhancement

Cooperating Entity 1: **U.S. Army Corps of Engineers** Cooperating Entity 2: **U.S. Fish and Wildlife Service**
Grant Requested: **$450,000.00** Cost Match: **$590,400.00** Total Project **$1,040,400.00**

OCWD proposed to divert a portion of Mill Creek flows into the existing Prado Wetlands for enhancement of water quality through wetlands treatment, including the reduction of nitrate and other contaminants. The proposed project is for diversion by gravity of 50-80% of Mill Creek through a bypass channel into the Prado Wetlands. The project will include restoration of wetland and natural riparian areas along Mill Creek to preserve and enhance its value as critical habitat for resident threatened and endangered species, in addition to measureable water quality improvements in Mill Creek, the Prado Basin and the Santa Ana River.

106 **Garrapata Creek Watershed Council**
Garrapata Creek Watershed Upslope Erosion Control Project

Cooperating Entity 1: **Monterey County Public Works Department** Cooperating Entity 2: **Big Sur Land Trust**
Grant Requested: **$327,981.00** Cost Match: **$78,810.00** Total Project **$405,391.00**

The primary objective of this project is to implement cost-effective erosion control and erosion prevention through road decommissioning and upgrade work on sites of sediment delivery that were identified as a part a road assessment funded through a grant from the California Department of Fish and Game (CDFG). The project will improve water quality, reduce sediment delivery and restore salmonid habitat in the Garrapata Creek watershed south of Carmel, California.

107 **City of Norwalk**
Norwalk NPDES Inspection

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$40,000.00** Cost Match: **$8,200.00** Total Project **$48,200.00**

City of Norwalk proposes to minimize the degradation of water quality for the San Gabriel River and Coyote Creek through a proactive inspection program. Restaurants operating within this jurisdiction will be inspected to prevent owners and operators from introducing dry weather flows from entering the storm drain system.

108 **City of Norwalk**
Norwalk Stormwater Hydrology Study

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$179,000.00** Cost Match: **$21,000.00** Total Project **$200,000.00**

City of Norwalk proposes to conduct a citywide survey to identify flooding areas and their causes by performing a hydrology study. The resulting findings will enable the City to address these non-point source pollution problems through subsequent remediation efforts.

109 **City of Norwalk**
Norwalk Stormwater Improvements

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$1,600,000.00** Cost Match: **$400,000.00** Total Project **$2,000,000.00**

City of Norwalk proposes to implement BMPs to control flooding within the City and decrease pollutant discharge into the San Gabriel River and Coyote Creek.

110 **City of Norwalk**
Norwalk Underground Reservoir

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$5,000,000.00** Cost Match: **$0.00** Total Project **$5,000,000.00**

We are seeking funding to construct an underground, 3.5 million gallon water reservoir. This project will include a deep water well, pump house and high pressure fire connections.

111 **Natural Heritage Institute**
Systemwide Analysis of the Potential to Restore Ecologically Beneficial Flow Regimes in the Central Valley

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$625,000.00** Cost Match: **$925,000.00** Total Project **$1,550,000.00**

The aim of this project is to investigate the potential to restore geomorphic and biologically beneficial flow regimes in the 11 controlled tributaries of the Central Valley system. The main question posed by this study is: To what extent can controlled floods be re-established downstream of terminal reservoirs, given the post-dam construction land-use development that has occurred in these floodplains, and given the availability of sediment either in situ or imported for fluvial geomorphic processes?

112 **Madera County/Resource Management Agency/Department of Engineering and General Services**
Madera County: Fresno River/Hensley Lake Nutrient and Pathogen Reduction Implementation Program

Cooperating Entity 1: **California Water Institute** Cooperating Entity 2: **Central Sierra Watershed Committee**
Grant Requested: **$494,630.00** Cost Match: **$10,000.00** Total Project **$484,630.00**

This project will implement nutrient and pathogen reduction measures for the Fresno River Watershed, as developed by the County's current SWRCB 205 (j) grant. Activities will include mapping non-point source activities, inspection and enforcment of problem areas, develop on-going problem identification and enforcement policies that are financially sustainable, develop and implement a public education program, and measuring impacts through a monitoring program.

113 **Sacramento River Partners**
Riparian Restoration at Drumheller Slough Sacramento River California

Cooperating Entity 1: **USFWS Sacramento River National Wildlife Refuge** Cooperating Entity 2: **0**

Grant Requested: **$253,127.00** Cost Match: **$623,830.00** Total Project **$876,957.00**

Sacramento River Partners proposes to restore riparian habitat on approximately 200 acres of fallow agricultural fields. The site would enhance the adjoining Valley Elderberry Longhorn Beetle and Giant Garter Snake mitigation sites and provide critical habitat (shaded riverine aquatic habitat and a source of large woody debris) for salmonids, as well as many other important species.

114 **Sacramento River Partners**
Floodplain Reconnection and Restoration on La Barranca and Blackberry Island.

Cooperating Entity 1: **USFWS Sacramento River National Wildlife Refuge** Cooperating Entity 2: **USFWS Red Bluff Fisheries Office**

Grant Requested: **$2,523,050.00** Cost Match: **$0.00** Total Project **$2,523,050.00**

The proposed project (Phase III) will: 1) Remove entrapment hazards posed by frequently flooded (2-4 years flood interval) gravel pits (some as large as 13 acres), 2) Reconnect the river and restore topography to the floodplain currently blocked by a 900-foot long unpermited, privately constructed levee and several raised roads, 3) Implement control measures for invasive non-native plant species that threaten the biological integrity of the site, and 4) restore 500 acres (450 acres on the La Barranca Unit and 50 acres across the river on the Blackberry Island Unit) with native riparian plants.

115 **Sacramento River Partners**
Assessment of Land Use and Promotion of Watershed Coordination Efforts on the Feather River (River Mile

Cooperating Entity 1: **We are developing partnerships with Butte Sutter and Yuba County RCDs** Cooperating Entity 2: **#REF!**

Grant Requested: **$525,000.00** Cost Match: **$1,300,000.00** Total Project **$1,825,000.00**

The proposed project will: 1) Complete an assessment of potential land use options within the expanded floodway (due to proposed levee setbacks), 2) implement a mixed use (conservation and agriculture) prototype (demonstration), and 3) establish an advisory group of stakeholders and coordinate with local resource conservation districts (Butte, Sutter, and Yuba).

117 **City of Laguna Beach**
Laguna Canyon Creek Habitat Restoration Project

Cooperating Entity 1: **Friends of Laguna Creek** Cooperating Entity 2: **Surfrider Foundation Laguna Beach Chapter**

Grant Requested: **$600,000.00** Cost Match: **$150,000.00** Total Project **$750,000.00**

The Laguna Canyon Creek Habitat Restoration Project objective is to restore the natural riparian habitat and improve the overall health and quality of the creek to protect the designated REC, WARM and WILD benificial uses. The project includes completing final design plans and enviromnettal documents and construction of the restoration work.

118 **School of Veterinary Medicine University of California Davis**
Source indentification monitoring and outreach for reducing agricultural pathogens into the Sacramento-San Joaquin Delta Estuary

Cooperating Entity 1: **U.C. Coop. Ext.: San Joaquin Stanislaus Solano Contra Costa Co.** Cooperating Entity 2: **CA RCD's: Solano Sloughouse Contra Costa San Joaquin Lower**

Grant Requested: **$891,849.00** Cost Match: **$98,164.00** Total Project **$990,011.00**

Microbial contamination of the Sacramento-San Joaquin Delta Estuary continues to impact beneficial uses of these waters. The goal of this project is to reduce animal agricultural inputs of bacterial indicators and pathogens in the many sloughs of the eastern section of the Sacramento-San Joaquin Delta. This project will identify animal agricultural operations that excessively load the sloughs of the eastern Delta with bacteria, develop and extend beneficial herd management practices that reduce protozoal contamination, develop regulatory guidance for more effective use of bacterial indicators, and enhance the ability of local communities, regulatory agencies, conservation groups, and agricultural managers to effectively monitor water quality and implement intervention strategies.

119 **Santa Ana Watershed Project Authority (SAWPA)**
Stormwater Quality Standards Study

Cooperating Entity 1: **Santa Ana Regional Water Quality Control Board (SA-RWQCB)** Cooperating Entity 2: **Orange County Public Facilities and Resources District**

Grant Requested: **$500,000.00** Cost Match: **$500,000.00** Total Project **$1,000,000.00**

To review existing water quality objectives and beneficial use designations within the Santa Ana River Basin Water Quality Control Plan (Basin Plan) and to address other questions regarding various water quality policy issues for the State of California. The study will also include a evalution of the established water quality objectives and beneficial uses in light of new or updated scientific information and knowledge of conditions in the region; development of recommendations for modifications to the established water quality objectives/beneficial uses, if any, in conformance with relevant state and federal requirements.

124 **City of Vacaville**
Lagoon Valley Watershed

Cooperating Entity 1: **Wildlife Conservation Board** Cooperating Entity 2:**LSA**
Grant Requested: **$1,071,925.00** Cost Match: **$401,000.00** Total Project **$1,472,925.00**

Third of four phases for watershed restoration work on 2.3 square mile watershed. Grants from Wildlife Conservation Board and DWR are being implemented this year with 70% of the restoration work to be completed 2003-04. This request will substantially complete lower watershed work involving sedimentation basins, plunge pools & bypass channel work for the capture of NPS and source

125 **Arc Ecology**
Yosemite Slough Urban Watershed Restoration Project

Cooperating Entity 1: **San Francisco Department of Public Works** Cooperating Entity 2:**0**
Grant Requested: **$3,000,000.00** Cost Match: **$0.00** Total Project **$3,000,000.00**

This San Francisco environmental justice project will restore the water and ecological quality of the South Basin Yosemite Slough. It combines data on legacy and ongoing contamination in the canal and inlet with education and empowerment of the surrounding low income, minority community, to enable local residents to become stewards of the watershed. This project builds watershed work funded by CALFED in 2002 and will integrate State Parks efforts to restore wetlands within Candlestick Point Recreational Area, and the Redevelopment Plan for Hunters Point Shipyard that designates the north shore of the basin and slough as public access open space. This project will provide the scientific and social foundation for the remediation, restoration, and managment of the area's environmental/ ecological health.

126 **Panoche Drainage District**
PO-2 Pump Station and Reuse Development Project

Cooperating Entity 1: **Charleston Drainage District** Cooperating Entity 2:**Pacheco Water District**
Grant Requested: **$590,000.00** Cost Match: **$107,000.00** Total Project **$697,000.00**

This project proposes to construct a 6 cfs pump station and 3.2± mile pipeline to deliver water from districts in the western portion of the Grassland Drainage Area to the San Joaquin River Water Quality Improvement Project (SJRIP). The project will also develop 100± acres of land w/in the SJIRP to salt tolerant crops. The drain water deivered by the pump station and pipeline will be reused w/in the SJRIP. Currently, drain water from these two districts is discharged to the San Joaquin River through the Grassland Bypass Project.

127 **Panoche Drainage District**
Main Drain Pump Station and Reuse Development Project

Cooperating Entity 1: **Firebaugh Canal Water District** Cooperating Entity 2:**Camp 13 Drainage District**
Grant Requested: **$407,500.00** Cost Match: **$79,500.00** Total Project **$487,000.00**

This project proposes to construct a 6 cfs pump station and 1± mile pipeline to increase the water delivered from two districts in the eastern portion of the Grassland Drainage Area to the San Joaquin River Water Quality Improvement Project (SJRIP). The project will also develop 150± acres of land w/in the SJIRP to salt tolerant crops. The drain water deivered by the pump station and pipeline will be reused w/in the SJRIP.

128 **Sierra Foothill Conservancy**
Millerton Area Watershed Action Plan

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$200,000.00** Cost Match: **$0.00** Total Project **$200,000.00**

This project is to enable the Millerton Area Watershed Coalition to complete a detailed action plan based on their assessment for all areas of the watershed except the Upper Finegold Creek (to be completed under another grant). Outreach and community education are an essential part of this planning.

129 **Sierra Foothill Conservancy**
Point Millerton Watershed Project

Cooperating Entity 1: **Trust for Public Land** Cooperating Entity 2:**California Department of Fish and**
Grant Requested: **$1,500,000.00** Cost Match: **$900,000.00** Total Project **$2,400,000.00**

The objective of this project is to acquire the fee title to 956 acres of land on both sides of Finegold Creek just as it enters Millerton Lake in order to protect it from development that will negativly impact the watershed and to conduct maintenance and restoration activities. The land is currently divided into 31 home sites. This will also protect the 2,000 acre feet per year riparian water right that goes with the land and ensure that the water feeds into the San Joaquin River and is not extracted.

131 **Department of Water Resources**
Microtidal Managed Wetland Enhancement Demonstration Project

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **The Nature Conservancy**
Grant Requested: **$4,100,000.00** Cost Match: **$1,200,000.00** Total Project **$5,300,000.00**

The proposal proponents plan to conduct a demonstration project in Suisun Marsh to evaluate the effectiveness of managed microtidal wetlands as an alternative to non-tidal seasonal wetlands management for preferred waterfowl species in Suisun Marsh. Landowners in the Marsh have traditionally followed a non-tidal flood/drain management regime, which is often incompatible for use by other resources, and can have adverse effects to beneficial uses in the Marsh. The Department of Water Resources proposes that purchase of lands and development of a demonstration microtidal wetland waterfowl management strategy can provide landowners with an alternative management technique that will increase compatibility with sensitive tidal marsh-dependent species and eliminate or reduce adverse management effects.

132 **Point Reyes National Seashore Association**
Engineering Design Study for Wetland Restoration at Giacomini Dairy

Cooperating Entity 1: **US Geological Survey** Cooperating Entity 2: **Tomales Bay Watershed Council**
Grant Requested: **$929,037.00** Cost Match: **$338,000.00** Total Project **$1,267,037.00**

This engineering study will provide crucial information for properly designing the planned Giacomini Dairy restoration so restore hydrologic function, improve downstream water quality, and assure that species of concern are adequately protected. The chief objectives of this project are to incorporate groundwater-surface water connections in the restoration design process. This will be accomplished by (1) modeling the groundwater flow regime, (2) determining loading rates of nutrients and pathogens entering the site in groundwater and surface water, (3) determining the role that water quality plays in controlling plant community composition, and (4) using this information as to determine optimum locations and depths of excavated channels to provide groundwater-surface water flow regime that promotes development of natural plant and animal communities within the restored marsh.

133 **City of Fremont Environmental Services Division**
Laguna Creek Restoration and Enhancements

Cooperating Entity 1: **Alameda County Flood Control District** Cooperating Entity 2: **Irvington High School**
Grant Requested: **$1,088,000.00** Cost Match: **$45,000.00** Total Project **$1,143,000.00**

The Project entails revegetating the streambeds, banks and top of slopes and stabilizing areas that are currently identified as high erosion at Laguna Creek within the City of Fremont. Fences along east side of creek will be removed and terracing to creek will be incorporated. An educational outdoor classroom/lab will be constructed for students of the adjacent High School to utilize the area as an Environmental Education Facility. The project is based on an existing Basin Plan, "Laguna Creek Basin Reconniassance Study and Enhancement Plan" adopted by the City of Fremont City Council.

134 **City of Fremont**
Sabercat Creek Riparian Habitat Improvements

Cooperating Entity 1: **Friends of Laugna Creek** Cooperating Entity 2: **Math/Science Nucleus**
Grant Requested: **$285,000.00** Cost Match: **$25,500.00** Total Project **$310,500.00**

This project proposes fencing to exclude cattle from the creekbed and riparan zones, biotechnical bank stabilization, and a planting program using native riparian species to replace exotics and to increase woody habitat. The need for this project is due to a riparian canopy which is dominated by exotic plant species, that limit habitat diversity. In addition cattle grazing, urban encroachment, and bank erosion threaten water quality.

135 **Contra Costa Water District**
CALFED Rock Slough and Old River Water Quality Improvements - Surface Water Drainage Management Project

Cooperating Entity 1: **Reclamation District No. 800** Cooperating Entity 2: **Reclamation District No. 2065**
Grant Requested: **$4,800,000.00** Cost Match: **$0.00** Total Project **$4,800,000.00**

The CALFED Rock Slough and Old River Water Quality Improvements – Surface Water Drainage Project (Project) is a CALFED Record of Decision directed action and a critical element of the CALFED Program. It directly meets a specific objective of the CALFED Record of Decision of managing agricultural drainage projects in areas near urban drinking water intakes in Rock Slough and Old River to improve drinking water quality in the Delta. The purpose of the Project is to improve drinking water quality by reducing the impacts of non-point source local watershed drainage that enters the Delta near the drinking water intakes at Rock Slough and Old River.

136 **University of California Davis**
Equipping and Outfitting of Watershed Science Research Facility

Cooperating Entity 1: **Bay-Delta Science Consortium** Cooperating Entity 2: **The Nature Conservancy/Cosumnes Preserve Partners**
Grant Requested: **$1,300,000.00** Cost Match: **$0.00** Total Project **$1,300,000.00**

We seek $1.3 million to equip and outfit a Watershed Sciences Research facility at the UC Davis campus. The facility will support watershed research and monitoring in the North Delta and its tributaries. Funds for construction of the building were provided by Proposition 13; and construction will begin this fall.

138 **Santa Cruz County Resouce Conservation District**
Cost-Share Implementation of Erosion and Sediment Control BMPs for Non-County Roads in the San Lorenzo Soquel and Aptos/Valencia Creek Watersheds

Cooperating Entity 1: **County of Santa Cruz** Cooperating Entity 2: **Califonria Department of Fish & Game**
Grant Requested: **$890,417.00** Cost Match: **$691,000.00** Total Project **$1,581,417.00**

This project will address sediment inputs from roads into the San Lorenzo River, Soquel Creek, and Aptos Creek Watersheds. This project will focus on reducing this source of sediment through the implementation of road drainage improvement best management practices in collaboration with non-county road entities. This project will also include public outreach and education through technical trainings, educational workshops, watershed tours, and newsletters/brochures.

139 **SONOMA COUNTY PERMIT RESOURCE MANAGEMENT DEPARTMENT (PRMD)**
MONTE RIO COMMUNITY WASTEWATER PROJECT

Cooperating Entity 1: **California Coastal Conservancy** Cooperating Entity 2: **State Water Resources Control Board**
Grant Requested: **$2,135,000.00** Cost Match: **$880,000.00** Total Project **$2,200,000.00**

The Monte Rio Community Wastewater Project will remove existing non-code compliant septic systems within the community and convert to a new collection, treatment and disposal system designed to remove pollution from surface and groundwaters that migrate into the Russian River. The Russian River within the community of Monte Rio is a CWA impaired Water Body, 303 (d) listed for pathogens. This impacts the beneficial uses in the community for recreation, fishing, and water supply.

140 **Regents of the University of California**
Speciation and Food Web Transfer of Selenium in the Upper Newport Bay

Cooperating Entity 1: **California State University Long Beach** Cooperating Entity 2: **0**
Grant Requested: **$199,949.00** Cost Match: **$0.00** Total Project **$199,949.00**

The purpose of this project is to reduce uncertainty with regard to threshold values for Selenium Toxicity in Predatious Fish in the Upper Newport Bay/San Diego Creek. Through measurements of the multiple species of Selenium in fish, invertebrates and algae, a better understanding of the bioactivity and toxicity of selenium can be obtained. This will provide a more accurate target concentration for selenium TMDLs within this specific waterbody.

141 **Caltrans, Department of Transportation**
ROBERTS RANCH RESTORATION

Cooperating Entity 1: **USDA Forest Service, Cleveland National Forest, Descanso RD** Cooperating Entity 2: **0**
Grant Requested: **$2,600,000.00** Cost Match: **$0.00** Total Project **$2,600,000.00**

The project will rehabilitate meadows and uplands damaged by concentrated flows from Interstate 8. Flows have caused severe downcutting and erosion. Continued sedimentation could impact the beneficial uses in the Sweetwater River and Loveland reservoir.

142 **Presidio Trust**
Tennessee Hollow Watershed Project (Eastern Tributary) - PIN 142

Cooperating Entity 1: **National Park Service Golden Gate National Recreation Area** Cooperating Entity 2: **Golden Gate National Parks Conservancy**
Grant Requested: **$1,743,000.00** Cost Match: **$3,747,000.00** Total Project **$5,490,000.00**

This is the first phase of a comprehensive creek and watershed restoration program in the Presidio of San Francisco - a national park site located near the mouth of the San Francisco Bay. The project involves the removal of highly invasive, non-native vegetation (including tree stands) and artificial fill and infrastructure from one of three tributaries in the Tennessee Hollow Watershed. The result will be a daylighted creek with restored ecological function, supporting a diversity of wetland habitat creating a continous wildlife

143 **Local Government Commission**
Addressing the Disconnect: Water Resources and Local Land Use Decisions

Cooperating Entity 1: **League of California Cities** Cooperating Entity 2: **0**
Grant Requested: **$420,000.00** Cost Match: **$0.00** Total Project **$420,000.00**

We will develop and disseminate a new set of water principles for adoption by cities and counties in general plans, ordinances and design guidelines. We will develop and compile additional resources to assist in their implementation including guidebooks, fact sheets, workshops and conferences. This builds on the successful model we have developed for the Ahwahnee Principles for Livable Communities which have been adopted and are being implemented by over 200 local governments.

144 **USDA Forest Service Pacific Southwest Research Station - Fresno**
Kings River Experimental Watershed: Monitoring and Restoration of Forest Ecosystems

Cooperating Entity 1: **University of Nevada Reno** Cooperating Entity 2: **Southern California Edison**
Grant Requested: **$814,000.00** Cost Match: **$0.00** Total Project **$814,000.00**

Kings River Experimental Watershed (KREW) is a long-term research study designed to: (1) quantify the variability in characteristics of headwater stream ecosystems and their associated watersheds, and (2) evaluate the effect of forest restoration treatments (fire and mechanical thinning) on the riparian and stream physical, chemical, and biological conditions. The proposed work addresses CALFED's objectives of ecosystem quality, water quality (especially source water), adaptive management, education and information transfer, and collaboration and coordination among multiple stakeholders. Requested funds would be used to make scientific data easily accessible to the public and other agencies, to quantitatively address cumulative effects from management activities, and to expand ongoing education activities with local communities and institutions. The annual Forest Service match to requested funds would be $500,000.

145 **Sacramento River Conservation Area Forum**
Sacramento River Conservation Area Program

Cooperating Entity 1: **Department of Water Resources** Cooperating Entity 2: **The Nature Conservancy (TNC)**
Grant Requested: **$806,000.00** Cost Match: **$0.00** Total Project **$806,000.00**

The Sacramento River Conservation Area Forum (Forum), a non-profit entity formed in May, 2000, has evolved from 1986 legislation that called for a management plan to protect, restore, and enhance both the fisheries and riparian habitat near the Sacramento River. Because of the intensive and varied public and private uses within the floodplain of the Sacramento River, coordination of those activities with restoration efforts is critical to the continued success of those restoration efforts. The Forum Handbook provides a broad conceptual plan for ecosystem restoration; however, additional planning detail is needed through outreach, site-specific and sub-reach planning which are important components of this program.

146 **Central Sacramento Valley Resource Conservation & Development Area**
Creating Sustainable Communities: Agriculture Water & People

Cooperating Entity 1: **Colusa Basin Drainage District** Cooperating Entity 2: **Glenn County Resource Conservation District**
Grant Requested: **$409,862.00** Cost Match: **$0.00** Total Project **$409,862.00**

"Creating Sustainable Communities: Agriculture, Water and People" will facilitate and improve coordination and assistance among government agencies, other organizations, watershed groups and landowners. The intent is to bring a diverse group of stakeholders together with the purpose of addressing the region's resource needs, social needs and economic (or financial) needs.

147 **San Jacinto River Watershed Council**
San Jacinto River Watershed Council Planning Effort

Cooperating Entity 1: **Santa Ana Watershed Project Authority** Cooperating Entity 2: **San Jacinto Basin Resource Conservation District**
Grant Requested: **$335,000.00** Cost Match: **$100,000.00** Total Project **$435,000.00**

The San Jacinto River Watershed Council is an open forum of stakeholders representing the ENTIRE watershed. The Council has been in existence for over a year. The SJRWC provides a coordination between various agencies and entities that includes and is open to all stakeholders within the watershed. It operates through a consensus-based collaberation, pertnerships, coordination of research and monitoring and enhancing education and stakeholder outreach in the San Jacinto Watershed

148 **San Jacinto River Watershed Council**
Study of Agricultural Land Use Practices in the San Jacinto Watershed

Cooperating Entity 1: **Santa Ana Watershed Project Authority** Cooperating Entity 2: **Milk Producers Council/Farm Bureau**
Grant Requested: **$280,000.00** Cost Match: **$60,000.00** Total Project **$340,000.00**

The project would involve the investigation of current agricultural land use practices and more agronimically efficient methods for agricultural land use management. The San Jacinto Watershed is 754 square mile radius watershed which includes a mix of agricultural uses which compose about 20% of the watershed. The data compiled in the study would then be utilized in developing a Comprehensive Nutrient Management Plan for the area along with recommendations by an advisory group consisting of landowners,dairymen and other stakeholders.

150 **TAHOE RESOURCE CONSERVATION DISTRICT**
Upper Truckee River Lower Middle Reach Stream Habitat Restoration Project

Cooperating Entity 1: **Natural Resources Conservation** Cooperating Entity 2: **El Dorado County**
Grant Requested: **$2,398,800.00** Cost Match: **$599,700.00** Total Project **$2,998,500.00**

This project includes the environmental approval, design, plans and specfications, construction and montoring for water quality, stream habitat and wildlife restoration for the Upper Truckee River. This project is for design, approval ,and construction of improvements along a 1.5 mile reach of the river.

151 **City of Lakewood-Natalie Likens**
Capital Cost Catch Basin Program

Cooperating Entity 1: **Los Angeles County: Department of Public Works** Cooperating Entity 2:**0**
Grant Requested: **$190,080.00** Cost Match: **$47,520.00** Total Project **$237,600.00**

Capital Cost Catch Basin Program would implement structural and non-structural BMP's with the Best Available Technology to reduce polluted urban runoff and improve water quality. Contracted personnel, trained volunteers, and hired staff would monitor technology, analyze contents of inserts and filters, and report on findings.

152 **Mission Springs Water District**
MSWD Groundwater Quality Protection Project

Cooperating Entity 1: **RWQCB-7** Cooperating Entity 2:**City of Desert Hot Springs**
Grant Requested: **$1,200,000.00** Cost Match: **$1,100,000.00** Total Project **$2,300,000.00**

The MSWD Groundwater Quality Protection Project will provide for the permanent elimination of Onsite Wastewater Disposal Systems (OSDS) overlying regional groundwater resources. This goal will be accomplished through the installation/construction of sanitary sewers and abatement of OSDS's utilizing State, Federal and community match funds, and implementaion of Section 13281(b) of the Water Code.The project is in accordance with California Management Measure 3.4B: Operating OSDS's; RWQCB-7 Targeted NPS Project #3: GroundwaterPollution Prevention/a\Abatement Projects; (Prop 13/SWRCB NPS Program #79114(a)(3).

154 **Western Shasta Resource Conservation District**
Shasta Lake Gray Water Disposal

Cooperating Entity 1: **USFS - Shasta-Trintiy National Forest** Cooperating Entity 2:**Bridge Bay Marina**
Grant Requested: **$326,607.00** Cost Match: **$95,000.00** Total Project **$421,607.00**

This project is feasibility study in response to the State Water Quality Control Board Resolution No. 5-01-221 that requires the Forest Service to eliminate gray water discharges from houseboats. This feasibility study will identify the current volume of gray water being discharged into Shasta Lake and the various disposal opportunities available. The result of the study will be to select the best disposal opportunity based on cost and effectiveness.

155 **U.S. Forest Service Shasta-Trinity National Forest**
Trout Creek Restoration Proposal

Cooperating Entity 1: **Hancock Resources Management** Cooperating Entity 2:**0**
Grant Requested: **$383,000.00** Cost Match: **$75,600.00** Total Project **$427,600.00**

This project will restore a degraded stream channel and improve habitat conditions for the McCloud River redband trout. The lower gully reach of the channel will be obliterated using plug-and-pond techniques. Trout Creek will be relocated to its remnant channel on its historical floodplain. Project benefits include restoration of floodplain connectivity, increased water quantity and quality, cooler water temperatures and restoration of aquatic and riparian vegetation. McCloud River redband trout (Oncorhynchus mykiss stonei) has limited populations dispersed over isolated sections of intermittent streams tributary to the McCloud River and was a candidate species for listing under the U.S. Endangered Species Act prior to the Conservation Agreement.

157 **Southern California Coastal Water Research Project**
Endocrine Disrruption Assessment in Coastal Fish

Cooperating Entity 1: **Orange County Sanitation District** Cooperating Entity 2:**0**
Grant Requested: **$335,000.00** Cost Match: **$60,000.00** Total Project **$395,000.00**

The proposed project will implement a monitoring program to assess the occurrence of endocrine disrruption in southern Califonia fish. Monitoring tools that facilitate cost-effective screening of fish will be developed and assessed for effectiveness. The extent and magnitude of endocrine disruption will be determined in multiple bays and estuaries from southern California and related to nonpoint source inputs.

158 **Watershed Protection District Public Works Department Ventura County**
Arroyo Conejo/Arroyo Santa Rosa Riparian Wetlands Project

Cooperating Entity 1: **General Services Agency** Cooperating Entity 2:**0**
Grant Requested: **$3,500,000.00** Cost Match: **$0.00** Total Project **$3,500,000.00**

This project increases by 15 acres the riparian wetlands located on land owned by the County of Ventura at the confluence of the Arroyo Conejo and Arroyo Santa Rosa. The project implements a plan developed through the Calleguas Creek Watershed Management Plan Committee and the California State Coastal Conservancy in 2000. It fulfills the goals on the Region 4 target project list for this watershed of restoring impaired riparian habitat, and using natural buffer zones to control erosion, while wetlands' biogeochemical cycling addresses water pollutants listed for these streams in the SWRCB Section 303(d) recommendations.

159 **San Joaquin River Group**
East San Joaquin Water Quality Framework

Cooperating Entity 1: **Coalition for Urban/Rural Environmental Stewardship** Cooperating Entity 2: **0**

Grant Requested: **$3,100,000.00** Cost Match: **$0.00** Total Project **$3,100,000.00**

The East San Joaquin Water Quality Framework would provide a cost-effective watershed organizational structure for cooperative and coordinated water quality activities and for making decisions on how to attain water quality objectives for the San Joaquin River eastside tributaries, and manage loads entering the San Joaquin River. This is a concept proposal to further the water quality monitoring and implementation activities under the Framework, and fulfill the requirements of the Conditional Waiver for Wastewater Discharge from Irrigated Lands. In addition to a consolidated water quality monitoring program, proposed activities include evaluation and promotion of management practices that will result in improvements to water quality.

160 **City of Newport Beach**
Big Canyon Creek Restoration Project

Cooperating Entity 1: **Community Conservancy** Cooperating Entity 2: **CA Department of Fish and Game**

Grant Requested: **$200,000.00** Cost Match: **$0.00** Total Project **$200,000.00**

The Big Canyon Creek Restoration Project addresses serious water quality contamination and pollutants from runoff and stormwater draining through Big Canyon Creek into Newport Bay, Southern CA's most important estuary and coastal wetlands. The Project will a) conduct water quality sampling and analysis and b)carry out Phase II of the planning & engineering designs for restoring a natural system of wetlands, riparian and upland habitats and creating a natural stream meander in 58-acre Big Canyon to prevent pollutants of concern from reaching Newport Bay, reduce chronic flooding, & control water velocity and volume. A habitat restoration plan will improve aquatic and terrestrial species habitats and restore native vegetation in Big Canyon. Designs for drainage improvements, ponds and bioswales will reduce pollutants flowing directly into Newport Bay, and will help meet TMDLs established for Newport Bay.

161 **Mojave Desert Resource Conservation District**
Mojave River Watershed Invasive Weed Management Planning and Mapping Project

Cooperating Entity 1: **Mojave Weed Management Area** Cooperating Entity 2: **Mojave Water Agency**

Grant Requested: **$191,593.00** Cost Match: **$0.00** Total Project **$191,593.00**

A planning project that incorporates education and outreach with a GPS/GIS mapping project to develop a watershed based Invasive Weed Management Plan.

162 **Sierra Forest Communitites Institute**
Loyalton - Smithneck Cr. Watershed Enhancement Project

Cooperating Entity 1: **Sierra Valley RC&D** Cooperating Entity 2: **Sierra Economic Development District**

Grant Requested: **$305,000.00** Cost Match: **$30,000.00** Total Project **$335,000.00**

The area of focus encompasses six contiguous Cal water 2.2 planning subwatersheds for a total inventory and analysis area of 38,742 acres.The principal project tasks are: Inventory current environmental conditions so as to build out a detailed and accurate suite of GIS data layers, build local stakeholder buyin for Watershed analysis and predictive model products of the project, train local workforce to conduct field work, recomend a suite of remediation projects targeted to improve the beneficial usage of our water

163 **Honey Lake Valley Resource Conservation District**
Susan River Day Education/Outreach and Agricultural Management Practices Assessment

Cooperating Entity 1: **Natural Resources Conservation** Cooperating Entity 2: **Special Weed Action Team (SWAT)**

Grant Requested: **$243,000.00** Cost Match: **$12,500.00** Total Project **$254,000.00**

The Susan River has a unique quality which it shares with other east-side watercourses; it flows into a closed drainage basin - Honey Lake. There has been no comprehansive and complete asessment necessary to prioritize problem areas and develop solutions. This prioritization would identify existing conditions and make recommendations for future projects (watershed restoration, forest improvements, wildlife and aquatic habitat improvements) and would be a coalescing feature of the future Honey Lake Valley CRM.

164 **Nevada County Resource Conservation District**
Community Partners Restoring and Protecting Wolf Creek

Cooperating Entity 1: **Carville Sierra Inc.** Cooperating Entity 2: **City of Grass Valley**

Grant Requested: **$1,349,177.00** Cost Match: **$369,574.00** Total Project **$1,718,751.00**

This project is multi-pronged; we seek to understand environmental and social threats to the Wolf Creek watershed by monitoring water quality and social awareness; build local community support through a public outreach and education campaign, bolster natural resource management by forming a CRMP watershed group, and evaluate the upper Wolf Creek corridor for restoration project feasibility, arriving at the top three priority sites for community-involved concept development.

165 **City of Santa Monica**
Wilshire Basin Dry-Wet Weather Runoff BMP Treatment Train Project

Cooperating Entity 1: **County of Los Angeles Public Works/Watershed Division** Cooperating Entity 2: **Heal the Bay**
Grant Requested: **$1,440,000.00** Cost Match: **$363,000.00** Total Project **$1,803,000.00**

The installation of a 2-stage structural BMP treatment train to remove a variety of pollutants of concern from all dry weather runoff and up to 80% of wet weather flows at the storm drain outlet at the end of Wilshire Boulevard in Santa Monica. The project area is in the beach adjacent to Pacific Coast Highway in a beach parking lot. This project will improve water quality entering the Santa Monica Bay and protect and enhance beneficial uses of the popular coastal zone along Santa Monica State Beach and adjacent to the Santa Monica

166 **City of Santa Monica**
Sub-Watershed Water Quality Improvement-Groundwater Recharge Demonstration Project

Cooperating Entity 1: **City of Los Angeles** Cooperating Entity 2: **Heal the Bay**
Grant Requested: **$499,000.00** Cost Match: **$410,500.00** Total Project **$909,000.00**

The installation of a 3-stage structural BMP treatment train to harvest dry weather runoff flows and remove a variety of pollutants of concern. The project area is an abandoned road within a residential area adjacent to a large park and golf course (City of Los Angeles) and is near the storm drain outlet at the end of the City's 16th Street drainage basin in the southern border. This project will harvest runoff for infiltration, thereby improving water quality entering the Santa Monica Bay, and protecting and enhancing beneficial uses of the popular coastal zone along Venice Beach (Los Angeles).

167 **City of Santa Monica**
Centinela Basin Dry-Wet Weather Runoff BMP Treatment Train Project

Cooperating Entity 1: **City of Los Angeles** Cooperating Entity 2: **Heal the Bay**
Grant Requested: **$600,000.00** Cost Match: **$125,250.00** Total Project **$725,250.00**

The installation of a 2-stage structural BMP treatment train in a residential area to remove a variety of pollutants of concern from all dry weather runoff and up to 80% of wet weather flows at the end of the Centinela sub-watershed drainage basin, eastern border of Santa Monica. This project will improve water quality entering Ballona Creek and the Santa Monica Bay and protect and enhance beneficial uses of the popular coastal zone along beaches south of Marina del Rey.

168 **City of Santa Monica**
Urban Runoff Pollution Reduction & Groundwater Recharge Street BMP Demonstration Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$466,000.00** Cost Match: **$124,000.00** Total Project **$590,000.00**

The Santa Monica Urban Runoff Reduction and Groundwater Recharge Street BMP Demonstration Project will demonstrate the feasibility and the results from three different solutions developed to reduce urban runoff pollution and provide groundwater recharge within an existing public right-of-way in a dense urban environment adjacent to an impaired water body (Santa Monica Bay). The project will provide results that, if successful, will be able to be implemented in other dense urban areas across the state.

169 **City of Santa Monica**
Beach Parking Lot Runoff Reduction and Greening / Multi-Use Demonstration Project

Cooperating Entity 1: **California State Parks** Cooperating Entity 2: **Heal the Bay**
Grant Requested: **$698,830.00** Cost Match: **$179,670.00** Total Project **$878,500.00**

This project will study the feasibility of converting existing paved beach parking lots into multi-use parking and recreational facilities via the use of greening techniques. The greening of these lots will represent a best management practice by addressing stormwater and dry weather runoff pollution issues, while simultaneously providing new field areas for games (during off-peak times), offering additional recreational areas for picnicking and playing, providing a retention basin for wet weather runoff from adjacent roads and streets, and adding aesthtic value to the beach front, thereby providing economic benefits to the community.

170 **Fairfield-Suisun Sewer District**
Building Understanding and Protection of Fairfield and Suisun City's Urban Creeks and Their Watersheds

Cooperating Entity 1: **Solano County Water Agency** Cooperating Entity 2: **City of Fairfield**
Grant Requested: **$1,308,324.00** Cost Match: **$171,528.00** Total Project **$1,479,852.00**

This project will focus on two urban creeks in the city of Fairfield. The project will access the watershed function of both creeks, develop an educational stewardship program for the creeks and demonstrate best management practices in targeted areas in

171 **Goose Lake Resource Conservation District**
Goose Lake Basin Watershed Improvement Project

Cooperating Entity 1: **University of California Cooperative Extension--Modoc County** Cooperating Entity 2: **Goose Lake Watershed Council**

Grant Requested: **$333,000.00** Cost Match: **$59,000.00** Total Project **$392,000.00**

This project is designed to enhance the Goose Lake watershed and benefit the residents of the basin who depend on and enjoy the wealth of natural resouces present by implementing projects in three major categories: 1) Riparian health, 2) Uplands management, and 3) Monitoring and Education/Outreach. Through these projects, we will be able to continue improving water quality within the watershed and enhancing the multitude of beneficial uses for the water resource. The education and outreach component of the project will not only allow us to showcase the results of current work, but will also help us develop landowner interest for future projects.

172 **Yager/Van Duzen Environmental Stewards**
Van Duzen Watershed Ranch Road Sediment Reduction Project - Phase 1

Cooperating Entity 1: **Humboldt County Resource Conservation District (HCRCD)** Cooperating Entity 2: **Ca. Department of Fish and Game**

Grant Requested: **$800,000.00** Cost Match: **$160,000.00** Total Project **$960,000.00**

The proposed project is designed to implement the results of a recently completed comprehensive erosion source assessment and inventory project. Sources of road erosion will be addressed through on-the-ground treatments that are designed to address site-specific causes of sediment mobilization and transport. The project scope focuses on private ranch roads in the Van Duzen River and associated tributaries which include Yager, Lawrence, Grizzly, and Hoagland Creek drainages.

173 **City of West Hollywood**
Water Quality Protection in West Hollywood

Cooperating Entity 1: **Community Partnerships for benefit of Sustainable Works** Cooperating Entity 2: **0**

Grant Requested: **$252,200.00** Cost Match: **$41,780.00** Total Project **$293,980.00**

There are three parts to the City's water quality plan. The first is to expand a pilot program funded by the California State Coastal Conservancy by installing 100 debris excluders on catch basins along arterials heavily traveled by tourists. The second is to expand the waterbroom program to 200 restaurants. The Watermiser Waterbroom is an extremely low water usage attachment to the garden hose and is used by restaurant and parking lot staff to remove trash, bacteria and PAH pollutants. Thirdly, additional funds will be used to print and distribute a 14 page booklet "Working for a Cleaner Bay", adapted from the City of Santa Monica's Design and Construction Practices to reduce urban runoff water pollution.

175 **Salton Sea Authority**
BIOBARRIERS FOR SELENIUM REMOVAL

Cooperating Entity 1: **Agrarian Research** Cooperating Entity 2: **University of California Riverside**

Grant Requested: **$639,600.00** Cost Match: **$0.00** Total Project **$639,600.00**

The proposed project would create and evaluate the treatment of selenium in the Imperial Valley Drains, prior to discharge of those drains into the Alamo River en route to the Salton Sea. Bio Barriers which consist of straw will be used to treat the contaiminated water.

176 **Salton Sea Authority**
REDUCTION OF PHOSPHOROUS AND NITROGEN POLLUTION IN THE WHITEWATER RIVER AND SALTON SEA

Cooperating Entity 1: **Kent Sea Tech** Cooperating Entity 2: **0**

Grant Requested: **$560,345.00** Cost Match: **$99,645.00** Total Project **$659,990.00**

The project is related to several work efforts in the basin designed to improve water quality. The proposed project is structured to remove phosphorous and nitrogen from the Whitewater River prior to the water entering the Salton Sea. The goal is to determine the most cost efficient means to reduce nutrient loading into the Sea. The project will investigate both the control of nutrient loaduings as well as removal methods. The project is directly related to TMDL activities in the Salton Sea Watershed.

177 **San Benito County Water District**
San Juan Basin Agricultural Drainage and Stormwater Management Assessment

Cooperating Entity 1: **County of San Benito** Cooperating Entity 2: **City of San Juan Bautista**

Grant Requested: **$552,500.00** Cost Match: **$97,500.00** Total Project **$650,000.00**

Assessment of the issues, potential solutions, and recommended implementation strategy to address the public health and environmental impacts associated with San Juan Basin agricultural drainage and stormwater runoff on the local groundwater, the San Benito/Pajaro stream system, and the Monterey Bay National Marine Sanctuary.

178 **NAPA COUNTY RESOURCE CONSERVATION DISTRICT**
NAPA GREEN CERTIFICATION PROGRAM (NGCP)

Cooperating Entity 1: **LAUREL MARCUS & ASSOCIATES** Cooperating Entity 2: **Napa Valley Vinters Association**
Grant Requested: **$500,000.00** Cost Match: **$275,000.00** Total Project **$775,000.00**

Napa Green Certification Program (NGCP) will reduce sediment delivery from vineyards, ranch roads and other agricultural lands to waterways in the Napa River watershed. It will increase riparian planting, enhance stream-riparian habitat conditions, reduce water temperatures, and enhance dry season streamflow. Participating farmers will implement prescribed beneficial management practices as part of an approved farm plan to enhance water quality and habitat conditions. Current funding supports workshops, farm conservation planning and/or project implementation on 5,000 or more acres in the Napa River watershed. Funds requested in this proposal will support a two-fold expansion, such that 10,000 or more acres will be addressed.

179 **NAPA COUNTY RESOURCE CONSERVATION DISTRICT**
NAPA RIVER WATERSHED ENHANCEMENT PROGRAM

Cooperating Entity 1: **NAPA COUNTY WATERSHED INFORMATION CENTER** Cooperating Entity 2: **Carneros Creek Stewardship**
Grant Requested: **$2,395,000.00** Cost Match: **$750,000.00** Total Project **$3,145,000.00**

The NRWEP is a flexible program of activities that allows for adaptive management and changing social and ecological needs and priorities while meeting the established watershed goal of maintaining a sustainable river ecosystem through objectives such as: promoting stream stabilization/restoration using natural processes; promoting and improving water management; coordinating natural resource protection and planning efforts; increasing migratory and resident fish habitat and encouraging land stewardship.

180 **Napa County Resource Conservation District**
Napa River Watershed Implementation (Monitoring Education Public Road Upgrades Restoration Design)

Cooperating Entity 1: **Napa County** Cooperating Entity 2: **Napa SustainableWinegrowing Group**
Grant Requested: **$1,214,000.00** Cost Match: **$270,000.00** Total Project **$1,484,000.00**

The Napa County Resource Conservation District (NCRCD), with support from Napa County and other local stakeholders, is seeking funds for three tasks that will reduce and prevent delivery of listed pollutants, particularly sediment, to the Napa River system. Proposed work will maintain and improve the successful District program of volunteer and staff monitoring of water quantity and quality; promote practices that reduce pollutants in streams by means of English and Spanish educational workshops, with Napa Sustainable Winegrowing Group; and reduce sediment delivery from County roads by upgrading culverts and addressing other problems.

181 **CITY OF SEAL BEACH**
SAN GABRIEL RIVER TRAIL ENHANCEMENT PROJECT NORTH

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$500,000.00** Cost Match: **$75,000.00** Total Project **$425,000.00**

The proposed project will design and construct the rehabilitation of the existing San Gabriel River Trail, signage and fencing at the trail from Marina Dr. to Pacific Coast Highway. The new amenities include educational kiosks, new picnic and bicycle storage areas, and new native vegetation.

182 **CITY OF SEAL BEACH**
SAN GABRIEL RIVER TRAIL ENHANCEMENT SOUTH

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$900,000.00** Cost Match: **$135,000.00** Total Project **$765,000.00**

The proposed project will design and construct th erehabilitation of the existing San Gabriel River Trail, signage and fencing at the trail from Marina Drive to the First Street Parking lot. The new ammenities include educational kiosks, new picnic and bicycle storage areas, and new native vegetation.

183 **CITY OF SEAL BEACH**
DEPARTMENT OF WATER AND POWER PROPERTY ACQUISITION AND RESTORATION

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$5,200,000.00** Cost Match: **$780,000.00** Total Project **$4,420,000.00**

This proposed project will acquire the previous LA Department of Water and Power vacant 10-acre property in order to preserve it and develop as open space for low impact recreation and habitats.

184 **CITY OF SEAL BEACH**
WEST END PUMP STATION URBAN RUN-OFF LOW FLOW DIVERSION

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$600,000.00** Cost Match: **$90,000.00** Total Project **$510,000.00**

The proposed project will construct a new urban run-off diversion pumping system at the West End Pump station to convey dry weather run-off to the local sewer system for treatment and disposal.

185 **CITY OF SEAL BEACH**
GUM GROVE PARK RESTORATION

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$600,000.00** Cost Match: **$90,000.00** Total Project **$510,000.00**
This Project will restore existing trails and bring them in compliance with current ADA standards. The Nature Park is a home for several species of birds as well as other wildlife. Please read project description.

186 **CITY OF SEAL BEACH**
HELLMAN RANCH WETLANDS FRESHWATER RESTORATION PROJECT

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$2,100,000.00** Cost Match: **$315,000.00** Total Project **$1,785,000.00**
This restoration project will entail freshwater, brackish water and saltwater areas in the wetlands. The project is design to improve water quality at the public beach, to assist goal of Clean water Act, provide education, and provide habitat and natural resources.

187 **CITY OF SEAL BEACH**
ABANDONMENT SEWER FORCE MAIN UNDER ANAHEIM BAY REDIRECTION OF AQUATIC PUMP STA.

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,500,000.00** Cost Match: **$225,000.00** Total Project **$1,275,000.00**
The proposed project will design and construct a new pump station and force main to the City of Huntington Beach and properly abandon the existing force main which is located under the National Wildlife Refuge and Anaheim Bay.

188 **CITY OF SEAL BEACH**
MARINA DRIVE URBAN RUN-OFF DIVERSION SYSTEM

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$400,000.00** Cost Match: **$60,000.00** Total Project **$340,000.00**
The proposed project will construct a new urban run-off diversion pumping system in the Marina Drive storm drain system to convey dry weather run-off to the local sewer system for treatment and disposal

189 **CITY OF SEAL BEACH**
EAST END (SEAL BEACH) PUMP STATION URBAN RUN-OFF DIVERSION SYSTEM

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$600,000.00** Cost Match: **$90,000.00** Total Project **$510,000.00**
The proposed project will construct a new urban run-off diversion pumping system at the East End Pump Station to convey dry weather run-off to the local sewer system for treatment and disposal.

190 **CITY OF SEAL BEACH**
SEWER MAIN REPAIR IN THE COASTAL PLAIN

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$4,500,000.00** Cost Match: **$675,000.00** Total Project **$3,825,000.00**
The proposed work to be performed will include design and construction to rehabilitate deficient portions of the sewer system using cost effective construction methods in the coastal plain area.

191 **CITY OF SEAL BEACH**
SAN GABRIEL RIVER/COYOTE CREEK DEBRIS BOOM

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$400,000.00** Cost Match: **$60,000.00** Total Project **$340,000.00**
The proposed project is to construct a Debris Boom/Net that will collect debris as it comes down the San Gabriel River .

192 **CITY OF SEAL BEACH**
EVAPO TRANSPIRATION IRRIGATION CONTROLLER SYSTEM

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$175,000.00** Cost Match: **$26,250.00** Total Project **$148,750.00**
The proposed project will construct and install new Evapo Transpiration (ET) irrigation controller systems in all City Parks and landscaped areas. The technology of the controller is designed save potable water and reduce irrigation run-off.

193 **County of Orange Public Facilities & Resources department**
Aliso Creek Main-Stem Riparian Restoration

Cooperating Entity 1: **U.S. Army Corps of Engineers** Cooperating Entity 2:**0**
Grant Requested: **$2,636,200.00** Cost Match: **$22,403,800.00** Total Project **$25,040,000.00**
Restore native riparian habitat and stabilize stream-bed with natural pool and riffle systems, exotic invasive plant removal, and revegetation of native riparian species. The resulting project will increase bank soil moisture, thus creating a sustainable environment for native riparian habitat while stabilizing stream flows to reduce erosive processes. Animal and fish passage will be enhanced throughout the watershed from the Ocean to the mountains.

194 **Sloughhouse Resource Conservation District**
Cosumnes River Restoration

Cooperating Entity 1: **Sacramento County** Cooperating Entity 2: **USDA Natural Resources Conservation Service**

Grant Requested: **$527,500.00** Cost Match: **$34,000.00** Total Project **$561,500.00**

The Cosumnes River Restoration Project is a restoration project that will restore and rehabilitate approximately one-mile, 50-acre, stretch of the Cosumnes River. The project will combine existing technology with environmentally sound natural resources conservation practices to heal the damage caused by historic flood events and poor land-use practices. The Project will return the streambed to a more natural meander, restore its connection to the adjacent floodplains, rehabilitate functional habitat and encourage large healthy populations of native flora and fauna, both aquatic and terrestrial, and improve water quality of the Cosumnes River. The information gained from the implementation and monitoring of this project will be shared with local stakeholders including students in the private and public communities. Additionally, project monitoring will occur before, during and after construction.

197 **Orange County CoastKeeper**
Lower Newport Bay/Rhine Channel Pollutants Assessment Project

Cooperating Entity 1: **Southern California Coastal Research Project** Cooperating Entity 2: **City of Newport Beach**

Grant Requested: **$572,000.00** Cost Match: **$100,800.00** Total Project **$672,000.00**

Orange County CoastKeeper will conduct a paired water quality, sediment and benthic testing project in the Lower Newport Bay and Rhine Channel, providing data needed by the Santa Ana RWQCB to facilitate implemention of technical TMDLs. CoastKeeper will also work with the City of Newport Beach to assess vertical sediment contamination in the Rhine Channel. CoastKeeper will conduct underwater mapping of the debris field in the Channel, while the City of Newport Beach will conduct coring sampling to determine the vertical extent of the contamination, and then prepare an engineering feasibility study to find a method of remediation of legacy sediment that minimizes water quality impacts.

198 **Southern California Marine Institute**
Coordinating and Enriching Citizen Water Quality Monitoring in the Greater Los Angeles Region

Cooperating Entity 1: **Los Angeles/San Gabriel River Watershed Council** Cooperating Entity 2: **0**

Grant Requested: **$361,863.00** Cost Match: **$70,790.00** Total Project **$432,653.00**

SCMI proposes to provide the necessary training, direction, equipment, and incentives to citizen monitoring organizations in Regions 4 and 8 by taking a more proactive role. SCMI will coordinate, evaluate, expand, and improve existing programs and involve newer programs in the Los Angeles Regional Citizen Monitoring Steering Team. Several new parameters will be introduced to these groups including bacteria, metals, sediment, and collection and identification of phytoplankton, especially red tide organisms.

199 **City of Berkeley**
Strawberry Creek Long Range Watershed Plan

Cooperating Entity 1: **Ecocity Builders** Cooperating Entity 2: **University of California**

Grant Requested: **$4,857,300.00** Cost Match: **$1,245,000.00** Total Project **$6,102,300.00**

Prepare a multi-stakeholder, comprehensive thirty-year watershed restoration plan. Additonally, this phase to the project will facilitate and coordinate restoration efforts currently in progress from the mouth of the creek to its headwaters which include: assessing overall stream health; assessing current culvert conditions; identifying priority sites for creek daylighting; providing estimates for costs for proposed phased restoration; assessing alternative approaches to optimize fish habitat at the mouth of the creek; launching a restoration transfer of development rights program and a Strawberry Creek land trust; completing a detailed design for daylighting in the downtown, collecting performance data on the use of vegetated swales, sand filters, and low-flow filter systems; repairing and/or replacing creek debris racks and culverts at creek crossings with a fire trail; extending or installing rock walls to relieve erosive overbank flows; restoring eroded banks using soil bioengineering techniques and replanting with native riparian species; and education and outreach programs to build community capacity.

200 **Water Education Foundation**
The Drinking Water Education Program

Cooperating Entity 1: **KVIE-Public Television** Cooperating Entity 2: **California Department of Health**

Grant Requested: **$443,394.00** Cost Match: **$78,246.00** Total Project **$521,640.00**

The Drinking Water Information Program will address the public's perception that tap water is not safe to drink through the development and dissemination of a full-length documentary, a summary video, a one-minute video clip,"Where your Drinking Water Comes From" (A Web based document which will identify whether drinking water sources are from ground water, local reservoirs, the Colorado River, the State Water Project, or the Central Valley project), and the development and airing of informational one minute radio spots.

201 Water Education Foundation
California Watershed Education Program

Cooperating Entity 1: **Calif. Association of Resource Conservation Districts** Cooperating Entity 2: **0**

Grant Requested: **$209,449.00** Cost Match: **$36,962.00** Total Project **$246,411.00**

The California Watershed Education Program will develop materials which will educated the general public about the watershed concept and the role average citizens can play in managing and protecting these vital public resources.Material to be developed include: A Citizens Guide to Watersheds, a Watershed video – a 15-minute video program that explains (1) what a watershed is, (2) who the stakeholders are in a watershed and (3) the importance of bringing stakeholders together to find consensus solutions to watershed problems in the CALFED solution area; a generic PowerPoint™ presentation, with an accompanying presenter's guide, on watersheds that could be used by RCDs, watershed agencies and community groups to educate citizens about watersheds; form partnerships with RCDs and other watershed-based groups would be developed to distribute the video, Citizen's Guide and PowerPoint™ presentation, emphasizing the CALFED solution area; and distribute watershed-related educational materials that are produced or distributed by the Foundation and create a Foundation Web page on watershed.

202 Karuk Tribe of California
Wooley Creek Water Quality Protection-Road Decommissioning Implementation

Cooperating Entity 1: **United States Forest Service- Six Rivers National Forest** Cooperating Entity 2: **0**

Grant Requested: **$324,511.00** Cost Match: **$57,267.00** Total Project **$381,778.00**

The Wooley Creek Water Quality Protection Road Decommissioning Implementation Project involves approximately 3.3 miles of road proposed for decommissioning. The overall objective is to protect the habitat of Spring Chinook Salmon, and Summer Steelhead populations by decreasing the present and future sedimentation caused by the 12N05 road network within the Wooley Creek

203 Karuk Tribe of California
South-East Ishi Pishi Watershed Restoration Road Decommissioning Design/Prescription

Cooperating Entity 1: **United States Forest Service- Six Rivers National Forest** Cooperating Entity 2: **0**

Grant Requested: **$222,841.00** Cost Match: **$39,325.00** Total Project **$262,165.00**

South-East Ishi Pishi Watershed Restoration Road Decommissioning Design/Prescription Project involves approximately 12.35 miles of known roads proposed for decommissioning. The objective is to design road decommissioning projects to prevent/reduce sedimentation caused by the road network within the South-East Ishi Pishi watershed.

204 Amador Fire Safe Council
Amador Watershed Improvement Project II

Cooperating Entity 1: **CDF** Cooperating Entity 2: **Central Sierra RC&D**

Grant Requested: **$1,164,900.00** Cost Match: **$193,870.00** Total Project **$1,358,770.00**

Phase II of the Amador Watershed Improvement Project will continue the overall improvement and protection for portions of the Mokelumne River, Consumnes River, and Dry Creek Watersheds. The goals of this project will be to improve water quality while restoring the watershed to a healthier condition by reducing the potiential for catastrophic fire, through fuel load reduction activities and to achieve improved water quality and restored watershed by providing significant road and drainage improvements. This project area includes four listed communities with financial hardship. The Amador Fire Safe Council coordnating with the organizing Dry Creek Watershed Group will administer/oversee this project including all current and future collaborating partners. Partners include the following: Amador County Board of Supervisors, CDF, USFS, Sierra Pacific Industries and Central Sierra RC&D.

205 Plumas County Flood Control and Conservation District
Plumas County Lake Almanor Watershed Planning and NPS Control Proposal

Cooperating Entity 1: **Pacific Gas and Electric** Cooperating Entity 2: **Ca. Dept. of Water Resources**

Grant Requested: **$1,657,000.00** Cost Match: **$116,392.00** Total Project **$1,773,392.00**

A watershed protection program that would include a watershed assessment, education campaign and construction program to elimate and manage surface water contaminates.

206 University of California Davis
Implementation of Buffer Irrigation and Grazing BMPs to Reduce Pathogens TOC/DOC and Turbidity from Rangeland and Irrigated Pasture

Cooperating Entity 1: **California Farm Bureau Federation** Cooperating Entity 2: **UCCE Yuba Butte Stanis. S Joaq. Merc. Glenn Teha. Shasta Modoc**

Grant Requested: **$885,376.00** Cost Match: **$93,876.00** Total Project **$979,252.00**

Current grazing and irrigation practices on the ~7,000,000 acres of rangeland and 500,000 acres of irrigated pasture in the Sacramento and San Joaquin River Watersheds is contributing to elevated microbial pathogen, organic carbon and colloidal pollutants levels in surface runoff. More information in required to provide guidance on the effective implementation of integrated buffer, grazing, and irrigation BMPs to reduce these pollutants in runoff from these landscapes. We propose to develop this knowledge, translate it into specific BMPs, and extend these recommendations to water resources protection staff and land managers for implementation.

207 **University of California Davis**
Implementation of Integrated Beach Monitoring Protocols to Assess and Reduce Human Recreational Exposure to Pathogenic Bacteria

Cooperating Entity 1: **UCCE County Offices: Sonoma Marin S.L. Obispo S.Barbara** Cooperating Entity 2: **0**

Grant Requested: **$429,277.00** Cost Match: **$70,649.00** Total Project **$499,926.00**

Pathogen contamination of recreational beaches by runoff from coastal watersheds is a significant human health concern and monitoring challenge for regulatory and public health agencies. There is limited guidance available on: 1) the adequacy of current indicator bacteria monitoring to detect pathogens and safe-guard human health, 2) the timing, intensity, frequency of monitoring required to assure confident risk assessment and decision-making, 3) recommendations to beach users about practices they can employ to reduce their exposure and infection risk during visits. We propose to work collaboratively with SWRCB-SWAMP, RWQCB, and public health agencies to implement integrated monitoring and assessment protocols which provide this guidance.

208 **City of San Pablo**
Wanlass Park Creek Restoration Project

Cooperating Entity 1: **Contra Costa Flood Control District (Creek Property Owners)** Cooperating Entity 2: **Aquatic Outreach Institute**

Grant Requested: **$362,800.00** Cost Match: **$105,000.00** Total Project **$467,800.00**

The Wanlass Park Creek Restoration Project is part of a of a larger park development project, to restore a 480-foot section (approximately 3/4 acre in area) of Rheem Creek located along the southern boundary of the City of San Pablo's 2.5 acre Wanlass Park Site. There are 2 alternatives: Alternative 1: Remove existing asphalt rip-rap from the south creek bank, widen the creek to maintain flood capacity and vegetate north and south creek banks to provide erosion protection and shade opportunities. Alternative 2: Replace asphalt rip-rap on the south creek bank with colored concrete and put in shade trees at top of south bank; and increase the vegetation and shade trees on the north creek bank.

211 **Mendocino National Forest**
Decommision Forest Road 22N01

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$287,500.00** Cost Match: **$43,000.00** Total Project **$330,500.00**

Roads in the Grindstone Creek watershed have been constructed on soils with very high erosion and landslide potential. Sediments generated in the watershed migrate downstream and are deposited in Black Butte Reservior. The decommissioning of this section of road will reduce immediate sediment yields, remove the potential for road failure impacts to the downstream watershed, and improve key winter deer range.

212 **Mendocino National Forest**
Inventory & Analysis - 7th Field Watersheds

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$320,000.00** Cost Match: **$30,000.00** Total Project **$350,000.00**

The Mendocino National Forest's Roads Analysis Process (RAP) identified several 7th field watersheds that exhibit high sediment potential and provide habitat for fish. This project will conduct more detailed inventories to assess the hydrologic link between the existing road network and streams, in order to prioritize decommission and stormproofing projects. In addition, site specific project plans will be developed, and environmental documentation as required by NEPA and CEQA will be completed.

213 **Stanford University**
Method Development: Remote Airborne Thermography for Assessment of Watershed Hydrology

Cooperating Entity 1: **Feather River Coordinated Management Resource Group** Cooperating Entity 2: **0**

Grant Requested: **$755,860.00** Cost Match: **$0.00** Total Project **$755,860.00**

This project is aimed at demonstrating the potential of ultra-high resolution thermography as a low-cost, innovative approach for quantitative assessment of the interaction between groundwater and surface water. The contribution of this work will be to develop a valid, testable and transferable appraoch based on remotely detecting the different thermal signatures of subsurface seepage from groundwater and surface waters.

215 **City of Poway**
Poway Creek Siltation and Trash Abatement Facilities and Storm Water Interceptors/Clarifiers at Two Fire

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$270,300.00** Cost Match: **$47,700.00** Total Project **$318,000.00**

Build three siltation and trash abatement facilities on Poway Creek. Install wash rack water interceptors and clarifiers at two fire

216 **SAN FRANCISCO PUBLIC UTILITIES COMMISSION**
BAYLANDS RESTORATION

Cooperating Entity 1: **Cargill Salt** Cooperating Entity 2: **City of East Palo Alto**

Grant Requested: **$2,160,844.00** Cost Match: **$432,169.00** Total Project **$2,593,013.00**

This project involves the restoration of salt pond and levee areas adjacent to San Francisco Bay that have been contaminated by lead shot and clay pigeons (PAHs) through the activities of a skeet and trap shooting club.

217 **City of Fort Bragg**
Elimination of cross-connections between sanitary sewer and stormwater drainage systems

Cooperating Entity 1: **None** Cooperating Entity 2: **None**
Grant Requested: **$480,858.00** Cost Match: **$178,163.00** Total Project **$659,021.00**

Elimination of 57 probable cross connections between city sanitary sewer system and stormwater drainage networks. Stormwater drainage networks discharge into water or onto adjacent beaches. Goal is to eliminate potential for contamination of receiving water or beaches with raw sewage.

218 **Truckee River Watershed Council**
Early Implementation of TMDLs in the Truckee Watershed

Cooperating Entity 1: **See attached list for the 15 Cooperating Entities** Cooperating Entity 2: **0**
Grant Requested: **$1,839,000.00** Cost Match: **$521,000.00** Total Project **$2,360,000.00**

This project will bring together a unique assemblage of thirteen federal, state, local, university, non-profit and private entities to solve a significant sediment non-point source pollution problem in the Truckee river basin. The goal of this collaborative effort is the early implementation of TMDLs, via restoration and education, for the Truckee River, Bear Creek, and Gray Creek.

221 **Community Clean Water Institute**
Middle Reach Russian River Water Quality Monitoring Project

Cooperating Entity 1: **Friends of the Russian River- Russian RiverKeeper** Cooperating Entity 2: **Analytical Sciences Inc.**
Grant Requested: **$300,000.00** Cost Match: **$0.00** Total Project **$300,000.00**

The Middle Reach Russian River Water Quality Monitoring Project ("the Project") expands CCWI's ongoing citizen monitoring, data collection, and community outreach along the Lower Russian River to the Middle Reach from Monte Rio Beach north to Healdsburg. The Project contains two components: 1) monitoring, and 2) public outreach and education. Monitoring includes collection of baseline data, including sediment build-up due to erosion from roads and resulting salmonid effects, non-point source pollution due to faulty septic tanks, storm water runoff, and low level wastewater contaminants. Outreach and community education focuses on distributing fact sheets and best practices guides to land owners and residents in affected areas, and recruiting community groups and individuals to participate in citizen monitoring.

223 **Torres Martinez Desert Cahuilla Indian Tribe**
Torres Martinez North Shore Wetland Project

Cooperating Entity 1: **Bureau of Reclamation** Cooperating Entity 2: **United States Environmental Protection Agency**
Grant Requested: **$550,000.00** Cost Match: **$82,500.00** Total Project **$632,500.00**

We propose to expand the wetland project from 85 acres to approximately 500 acres that is currently being planned and implemented for the North end of the Salton Sea. This project funding will help to continue to build the wetland project for the North End of the Salton Sea. It will also support Endangered Species/Habitat and improve water quality within the Salton Sea.

224 **Mountains Recreation Conservation Authority (MRCA)**
Tujunga Wash Restoration Project

Cooperating Entity 1: **Los Angeles County Department of Public Works** Cooperating Entity 2: **Valley Glen Community Council**
Grant Requested: **$4,998,980.00** Cost Match: **$3,525,000.00** Total Project **$8,523,980.00**

The Tujunga Wash Project (Project) is a multiple benefit project that will construct an alternative naturalized stream course on the west bank of the Tujunga Wash in the northern part of the San Fernando Valley. The constructed stream course will reduce contaminants from regional urban and stormwater flows, enhance groundwater replenishment, promote watershed education, and serve as a model for a sustainable and healthy alternative stream system and riparian habitat in a dense, urban setting. The Project will increase recreational and educational opportunities by installing heavy landscaping, meandering pathways, and educational signage that will provide public access in a corridor devoid of open space and recreational opportunities.

225 **Eel River Watershed Improvement Group**
LITTLE LARABEE WATERSHED EROSION CONTROL PROJECT

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **Pacific Watershed Associates**
Grant Requested: **$348,789.00** Cost Match: **$354,964.00** Total Project **$703,753.00**

This project recommends implementation of erosion control measures identified in the Watershed Assessment of Little Larabee Creek conducted by Pacific Watershed Associates under contract with the Eel River Watershed Improvement Group and funded by the California Department of Fish and Game 271 program. If approved, 191 identified erosion sites will be treated following site specific design recommendations made by PWA professional evaluation.

226 **City of El Cerrito**
Baxter Creek Restoration

Cooperating Entity 1: **Friends of Baxter Creek** Cooperating Entity 2: **Aquatic Outreach Institute**
Grant Requested: **$579,000.00** Cost Match: **$148,000.00** Total Project **$737,000.00**

The proposed project includes restoration of a degraded, channelized urban creek, which will include re-grading the creekbed to restore its meanders and create an oxbow, as well as replanting the creek channel with native species that will increase the habitat value of the creek. In order to make this project accessible and useful for humans as well as for riparian species we propose to design and create a path alongside the creek. Additionally, the proposed project includes the development of educational placards and outreach programs that will target students and urban residents alike in understanding, caring for, and protecting the watershed.

227 **Msity Kaltreider Solano County Department of Environmental Management**
Water Supply Vulnerability Analysis and Management

Cooperating Entity 1: **Central Valley Regional Water Quality Control Board** Cooperating Entity 2: **Bay Area Regional Water Quality Control Board**
Grant Requested: **$305,310.00** Cost Match: **$0.00** Total Project **$305,310.00**

The project proposes to assess the location of water supply wells and groundwater impact plumes throughout Solano County and initiate a County-wide inter-agency tracking and notification system for existing contaminant plumes and water supply wells within areas that are highly vulnerable for contamiation. This system will enact an effective communication and tracking program between oversight agencies and a tracking system for non-regulated wells to ensure that impacted sites near water supply wells are properly prioritized for accelerated cleanup and protection of groundwater resources.

228 **San Diego Unified Port District**
Switzer Creek Watershed Restoration

Cooperating Entity 1: **City of San Diego Stormwater** Cooperating Entity 2: **San Diego Baykeeper**
Grant Requested: **$3,600,000.00** Cost Match: **$900,000.00** Total Project **$4,500,000.00**

Plan, design and build erosion control and sediment removal system for urban watershed feeding a 303(d) listed water body.

229 **San Diego Unified Port District**
Nontoxic Antifoulant Hull Paint Demonstration

Cooperating Entity 1: **City of San Diego** Cooperating Entity 2: **University of California Sea Grant Extension Program**
Grant Requested: **$255,000.00** Cost Match: **$45,000.00** Total Project **$300,000.00**

Test nontoxic antifoulant paint on small craft in San Diego Bay to develop transition strategy for nontoxic antifoulant paint to resolve dissolved copper TMDL.

230 **San Diego Unified Port District**
Media Filtration Stormwater Treatment Devices

Cooperating Entity 1: **San Diego Port Tenants Association** Cooperating Entity 2: **San Diego County Regional Airport Authority**
Grant Requested: **$255,000.00** Cost Match: **$45,000.00** Total Project **$300,000.00**

Tidelands small business are under increasing regulatory pressure to contain/eliminate stormwater discharges or to treat it in such a manner as to allow it to be discharged into the Bay. This project would install, test and evaluate three water filtration systems at three tidelands' boatyard locations; two are in the northern portion of San Diego Bay, and one in the southern portion of the Bay. The goal would be to find an effective and affordable system or systems for treating stormwater to discharge standards.

231 **Santa Ana Watershed Project Authority (SAWPA)**
Santa Ana Watershed Data Management System (SAWDMS)

Cooperating Entity 1: **Orange County Water District** Cooperating Entity 2: **Western Municipal Water District**
Grant Requested: **$699,000.00** Cost Match: **$105,000.00** Total Project **$804,000.00**

The proposed project would develop a comprehensive watershed wide data collection and database system for the Santa Ana Watershed (Santa Ana Watershed Data Management System- SAWDMS) and make it available for stakeholders to use for a variety of purposes. The data collected would include both surface and groundwater quality data to assist on going water quality efforts, future TMDL efforts, and ongoing TMDL development efforts.

233 **Northern California Water Association**
Sacramento Valley Water Management Program

Cooperating Entity 1: **Metropolitan Water District of Southern California** Cooperating Entity 2: **(see Table 3 in the Narrative for a list of cooperating entities)**

Grant Requested: **$4,500,000.00** Cost Match: **$85,500,000.00** Total Project **$90,000,000.00**

The Sacramento Valley Water Management Program is a grassroots, collaborative effort to assist in meeting Bay-Delta water requrements while increasing water supplies to farms, cities, and the environment. In December 2002, more than 100 organizations reached an unprecedented agreement to manage water in a way that meets water supply, water quality, and environmental needs in the Sacramento Valley and throughout California. The Agreement includes three categories of projects: conjunctive management (groundwater/surface water projects), system improvement (water use efficiency projects), and groundwater/surface water planning (studies and investigations to obtain local resource data). This concept proposal covers over 40 separate projects proposed by cooperators in this Agreement throughout the Sacramento Valley.

234 **CSU Chico - Research Foundation**
Watershed Monitoring and Best Management Practice Implementation on Agricultural Lands in the Sacramento

Cooperating Entity 1: **U.C. Davis** Cooperating Entity 2: **USGS**

Grant Requested: **$3,070,000.00** Cost Match: **$0.00** Total Project **$3,070,000.00**

To provide independent and objective technical support to agricultural producers in the Sacramento Valley as they meet the requirements of the “Agricultural Discharge Conditional Waiver Program” of the Central Valley Regional Water Quality Control Board. To work with NRCS, U.C. Cooperative Extension, Resource Conservation Districts (RCDS), active watershed organizations and Agricultural Commissioners to facilitate formation of new watershed groups and support existing groups. Support will be provided through technical assistance in monitoring water quality, storing data, quality assurance, GIS, BMP effectiveness, and analyzing trends. This support system will use existing and emerging knowledge of best management practices to reduce impacts to waterways by working with individual producers who have an identified need to demonstrate economical ways to monitor water quality.

235 **Vina Resource Conservation District**
Deer Creek Bank Stabilization and Upper Watershed Wetland Project

Cooperating Entity 1: **CSU Chico Research Foundation** Cooperating Entity 2: **SHN Engineering**

Grant Requested: **$1,096,267.00** Cost Match: **$20,000.00** Total Project **$1,116,756.00**

The Vina Resource Conservation District proposes to implement a bank stabilization project in order to continue the stabilization of approximately 600 feet of stream bank preventing erosion while reestablishing riparian vegetation. This will provide a more stable habitat for the many endangered species in this area while providing long-term protection for agricultural lands. Additionally, the RCD will work with a local landowner to enhance and protect wetlands in the upper watershed.

236 **Butte County Resource Conservation District**
Butte County RCD Non-native Eradication Project

Cooperating Entity 1: **Butte Couny Agricultural Commissioners Office** Cooperating Entity 2: **Various Butte County Watershed Organizations**

Grant Requested: **$476,400.00** Cost Match: **$98,000.00** Total Project **$574,400.00**

This project will implement a mapping, outreach and technical assistance program that will removal all non-native, A, B and C listed weeds in Butte County. This program will support watershed coordination on three major tributaries in Butte County and a half time coordinator for the newly developed Butte County RCD. This project is an important first step towards implementing a collective program in a region where collaboration has been haphazard. The RCD and its collaborators feel that this program represents a major step towards building long term sustainable bridges into future collaborations.

237 **City of Huntington Beach**
Natural Treatment System - East Garden Grove Wintersburg Channel Urban Runoff Diversion Project

Cooperating Entity 1: **County of Orange** Cooperating Entity 2: **0**

Grant Requested: **$3,126,000.00** Cost Match: **$500,200.00** Total Project **$3,626,200.00**

The primary goal of the project is to divert urban runoff that presently flows into the Lower Bolsa Chica Wetlands, Huntington Harbour and Anaheim Bay from the EGGWC into a natural treatment system for treatment to remove numerous pollutants, thereby significantly reducing pollutant loading to the coastal receiving waters. Secondary goals include habitat restoration and public education and outreach to encourage pollution source control and prevention in the urban watershed. The project will also result in groundwater recharge and enhancement of saltwater barrier protection. Treated urban runoff will be used to rehabilitate Talbert Lake and the Shipley Nature Center.

238 Upper Mokelumne River Watershed Authority
Upper Mokelumne River Watershed Assessment and Management Plan

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$650,000.00** Cost Match: **$100,000.00** Total Project **$750,000.00**

The project will be the second and third phases of a watershed assessment and watershed management plan development process. Under the guidance of a local stakeholder organization, the project will initiate the filling of data gaps identified during the first phase, through monitoring and other data collection. Using the detailed watershed assessment approach approved by stakeholders during the first phase, the project will conduct a complete assessment of the watershed, identifying sources of water quality problems and/or threats. The final part of the project will develop a watershed management plan to address these problems and/or threats.

239 City of Orinda
Projects for the Enhancement of the Upper Portion of the San Pablo Creek Watershed

Cooperating Entity 1: **Friends of Orinda Creeks** Cooperating Entity 2: **Urban Creeks Council**
Grant Requested: **$4,319,997.00** Cost Match: **$1,518,002.00** Total Project **$5,837,999.00**

Part one of the project is the restoration of San Pablo Creek as it flows through downtown Orinda, returning this flood control channel that replaced the creek in 1958 into a significant community amenity that highlights San Pablo Creek as a central element of Orinda life while improving the quality of the water that flows into San Pablo Reservoir (a drinking water source), wildlife habitats, and this portion of the San Pablo Creek watershed. The second part of the project would correct damaging alternations to residential portions of San Pablo Creek that have resulted in erosion, blockages, poor water quality and invasive vegetation.

240 COUNTY OF SAN MATEO
SAN MATEO COUNTY COASTAL WATERSHED SEDIMENT REDUCTION PROJECT

Cooperating Entity 1: **Midpeninsula Regional Open Space District** Cooperating Entity 2: **Others listed in Narrative**
Grant Requested: **$2,007,000.00** Cost Match: **$503,000.00** Total Project **$2,510,000.00**

The proposed project will reduce sedimentation from San Mateo County Parks and Midpeninsula Regional Open Space Preserves by improving surface drainage capabilities, improving stream crossings and installing erosion control measures along 39 miles of roads and trails. Project sites are located in the Pescadero/Memorial/Sam McDonald County Park Complex, and the El Corte de Madera Creek, La Honda Creek and Coal Creek Open Space Preserves. The project will also restore 200 acres of land adjacent to the Pescadero Marsh by removing non-native pampas grass and revegetating with native plant species to reduce sedimentation and improve habitat.

241 City of Monterey
Metals in Stormwater: Analysis Source Control Identification and Public Education

Cooperating Entity 1: **Monterey Regional Storm Water Program Participant's Group** Cooperating Entity 2: **Save the Whales**
Grant Requested: **$280,500.00** Cost Match: **$39,500.00** Total Project **$317,000.00**

This project will included follow-up monitoring to find sources of high metals concentrations found during the November "First Flush" monitoring event at several sites in the Cities of Monterey and Pacific Grove. Samples of urban runoff will be analyzed for concentrations of zinc, copper, and lead in these two subwatersheds as well as at a "control site" in the City of Carmel-by-the-Sea to identify sources. Once sources and source control measures have been identified, a public education component will be developed and implemented to achieve pollutant reduction.

242 Riverside County Flood Control and Water Conservation District
Murrieta Creek restoration of habitat corridor bank stabilization and constructed wetlands

Cooperating Entity 1: **City of Temecula** Cooperating Entity 2: **City of Murrieta**
Grant Requested: **$4,701,436.00** Cost Match: **$7,826,033.00** Total Project **$12,527,478.00**

Project is final two Phases (3 and 4) of ongoing Army Corps of Engineers/local sponsors' project. Phase 3 is 230 multi-use basin for transitory water storage, sediment deposition (30 AC), wetlands construction (166 AC), buffer zone (11 AC) and recreation area. Recreational component is not part of application. Phaase 4 is 3.6 miles of embankment stabilization and constructed habitat corridor. Overall project will control chronic flooding, restore beneficial uses, improve water quality through nutrient uptake and sediment reduction, provide improved habitat values and connectivity while placing watershed area threatened by urbanization into public domain.

243 City of Avalon
Avalon Bay and Avalon Canyon Protection Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$960,000.00** Cost Match: **$240,000.00** Total Project **$1,200,000.00**

Slip lining of sewer lines in the City of Avalon to improve water quality at public beaches. Rehabilitation of two pump stations that pump wastewater to treatment facility.

244 **Ventura Regional Sanitation District**
NUTRIENT & PATHOGEN REMOVAL FROM SEPTIC SYSTEMS

Cooperating Entity 1: **Glenview Mobile Home Park** Cooperating Entity 2:**#REF!**
Grant Requested: **$2,000,000.00** Cost Match: **$2,000,000.00** Total Project **$4,000,000.00**

Improve wastewater treatment at Ventura and Los Angeles coastal and near surface water locations currently using septic tanks, resulting in the removal of 63 pounds per day nitrogen compounds (as N). Several of the locations are micro communities currently experiencing traditional septic system failures of surfacing wastewater or non-flushing toilets. The Ventura Regional Sanitation District will permit, design, install, operate, and maintain environmentally appropriate advanced onsite wastewater treatment for a total wastewater flow in excess of 200,000 gallons per day.

245 **San Francisco Estuary Institute**
Statewide Assessment of Stream and Wetland Beneficial Uses In Impaired Waterbodies

Cooperating Entity 1: **State Water Resources Control Board** Cooperating Entity 2:**State Resources Agency**
Grant Requested: **$4,144,000.00** Cost Match: **$924,000.00** Total Project **$5,053,000.00**

The goal of this two-year project is to implement a standardized, cost-effective, science-based, regionalized approach to inventory wetlands and assess their beneficial uses relative to ambient conditions and management actions throughout coastal watersheds in California. The approach will be based on previously completed preparatory work supported by federal, state, and local agencies. It will be advised and reviewed by statewide and regional teams of scientists and managers, will be scientifically validated for key wetland functions relating to water quality and wildlife support, will be practical for routine use in the field by professional staff and trained volunteers, and will increase public access to scientific information about wetland projects and ecosystems.

246 **City of San Bernardino Municipal Water Department**
Enhanced Reliability Schedule of Improvements - Ogden-Palm Zone Water Main and Booster

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$4,784,486.00** Cost Match: **$0.00** Total Project **$4,784,486.00**

The Ogden-Palm Zone Water Main and Booster consists of a 15,100-foot 36-inch ductile iron pipe conveyence line with a booster. Its purpose is to provide a a means of conveying water from lower elevations in the basin where we have sufficient sustainable water supplies and move it to drought-impacted portionsof our servie area at higher elevations. This water is contaminated with TCE and PCE and must be treated at our facilities before distribution. By adding this conveyance we can begin pumping, treating and distributing this water, in effectrecaliming groundwater that would otherwise be lost to us. The main will provide additional basin management capacity freeing us from the need for State Project Water.

247 **City of San Bernardino Municipal Water Department**
Desalting Facility Planning and Desing Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$200,000.00** Cost Match: **$30,000.00** Total Project **$230,000.00**

The Ogden Reservoir, a 12-million gallon, pre-stressed concrete reservoir, is part of a phased series of infrastructure enhancements to manage our groundwater basin. During drought conditions parts of our basin at higher elevations are not able to produce the water need to meet the local demand while the larger balance of the basin at lower elevations has a sufficient and sustainable supply. The reservoir will provide additional storage capacity to add water pressure that will help move water from wells in lower elevations with reliable water supplies to drought-affected service areas in higher elevations and to improve service to low-income neighborhoods, freeing us from needing State Project Water.

248 **Wildlife Heritage Foundation**
Auburn Ravine Ecosystem Restoration Project: Phase I

Cooperating Entity 1: **County of Placer** Cooperating Entity 2:**City of Lincoln**
Grant Requested: **$2,215,000.00** Cost Match: **$540,000.00** Total Project **$2,755,000.00**

Restoration Protection and preservation of riparian and aquatic habitats along Auburn Ravine. The City of Lincoln sites will be used as an educational tool for nearby landowners and research area to establish BMPs for similar sites within the watershed.

249 **Wildlife Heritage Foundation**
Adobe Creek Restoration and Flood Control Project Reach 5

Cooperating Entity 1: **Adobe Creek Watershed Group** Cooperating Entity 2:**Santa Clara Valley Water District**
Grant Requested: **$2,433,500.00** Cost Match: **$0.00** Total Project **$2,433,500.00**

The Adobe Creek Restoration and Flood Control Project, Reach 5, incorporates and maximizes environmental enhancements within the channel to improve water quality and to meet flood control objectives. Native plant communities, diverse topography and use of native substrate materials such as rock and wood will improve aquatic and terrestrial wildlife habitat.

250 **Sequoia Foundation**
Bay-Delta Fish Consumption Project

Cooperating Entity 1: **Environmental Health Investigations Branch/CDHS** Cooperating Entity 2: **0**

Grant Requested: **$1,990,824.00** Cost Match: **$0.00** Total Project **$1,990,824.00**

The project goal is to promote and protect the health of populations consuming contaminated fish caught in the Bay-Delta Watershed. This will be achieved by (1) interagency-interorganizational coordination; (2) awareness-raising in priority populations of health risks associated with consumption of contaminated fish and ways to reduce health risks; and (3) local capacity building.

251 **THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**
JOINT KERN COUNTY WATER AGENCY/METROPOLITAN WATER DISTRICT INTEGRATED WATER RESOURCE PLAN

Cooperating Entity 1: **Kern County Water Agency** Cooperating Entity 2: **0**

Grant Requested: **$400,000.00** Cost Match: **$100,000.00** Total Project **$500,000.00**

An Integrated Water Supply Study to optimize water supplies in Kern County and The Metroplitan Water District service area, and maximize water quality benefits in the California Aqueduct.

252 **The Metropolitan Water District of Southern California**
Lake Perris Dissolved Oxygen Enhancement Project

Cooperating Entity 1: **California Department of Parks and Recreation** Cooperating Entity 2: **California Department of Water Resources**

Grant Requested: **$3,380,000.00** Cost Match: **$850,000.00** Total Project **$4,230,000.00**

Review existing evaluation of solutions for improving oxygen levels at Lake Perris and identify preferred approach. Prepare design and construct the selected alternative. Alternatives to be considered include introducing oxygen and mixing of the lower lake levels.

253 **The Metropolitan Water District of Southern California**
Retrofit of Large Commercial and Institutional Landscapes with Weather-Sensitive Controllers

Cooperating Entity 1: **Any one or more of Metropolitan's 26 member agencies** Cooperating Entity 2: **0**

Grant Requested: **$5,000,000.00** Cost Match: **$5,000,000.00** Total Project **$15,000,000.00**

Targeting of approximately 60 large commercial and institutional landscapes with older automatic irrigation systems for retrofit with new, commercial grade, centralized irrigation and /or weather-sensitive controllers and other efficient irrigation equipment. Provide property owners with clear project application criteria, assistance in application preparation, partial up-front financial incentives prior to purchase of upgraded, efficient irrigation controls and other system equipment. Each project would have standardized databases to record historical and monitored water use and ET data and calculate net water savings. Selected site(s) would be monitored and assessed for runoff and pollutant reduction.

254 **The Metropolitan Water District of Southern California**
Southern California Residential Rebate Program for Landscape Improvements Including Low-Water Using Plants

Cooperating Entity 1: **Any one of more of Metropolitan's 26 member agencies** Cooperating Entity 2: **0**

Grant Requested: **$5,000,000.00** Cost Match: **$2,130,000.00** Total Project **$7,130,000.00**

Providing cash incentives for the upgrade of residential landscapes with low water-using plants, weather-sensitive controllers, assistance with irrigation system upgrades and education via Protector del Agua residential classes, Metropolitan's low water using plant CD, and written materials about methods to eliminate and/or minimize excess water use and reduce runoff and associated pollution. Increasing the public's ethic about good stewardship of our natural resources and methods and actions individuals can use to

255 **CITY OF SANTA ROSA**
LEDDY PARK AREA INFRASTRUCTURE IMPROVEMENTS - (Sanitary Sewer)

Cooperating Entity 1: **Sonoma County Perrmit & Resource Management** Cooperating Entity 2: **Area Committee for the Southwest Santa Rosa Redevelopment Project**

Grant Requested: **$817,034.00** Cost Match: **$144,183.00** Total Project **$961,217.00**

The project would reduce pathogen, nutrient and sediment levels in surface and drinking waters by providing sanitary sewer service to approximately 80 parcels of varying size. It would include the engineering design, environmental review, construction, and inspection tasks to extend a sanitary sewer main and laterals to an area in southwest Santa Rosa. The area's septic systems have a significant failure rate during the rainy season and discharge raw sewage into adjacent fields, roadside ditches, and local creeks. Grant monies are needed to improve the water quality and public health by leveraging with utility fees to improve the chances of voter approval of an Assessment District to extend sanitary and water services to the project area, a lower median income area with a large minority population .

258 **Marin Municipal Water District (MMWD) as fiscal agent for the North Bay Watershed Association (NBWA)**
Consolidated Concept Proposal for Funding of Watershed Protection In the Greater San Pablo Bay Area

Cooperating Entity 1: **Sonoma Ecology Center** Cooperating Entity 2: **The Bay Institute**
Grant Requested: **$2,225,000.00** Cost Match: **$1,280,000.00** Total Project **$3,505,000.00**

A coalition of watershed stakeholders in Marin and Sonoma counties convened to develop this proposal containing fourteen separate projects to improve water quality and aquatic habitat in the North Bay. This proposal addresses nonpoint source water quality and environmental protection problems in the coastal watersheds of the San Pablo Bay area. The fourteen projects target erosion sites and sediment sources, storm water runoff, and nonpoint source pollution using best management practices.

259 **Marin Municipal Water District (MMWD) as fiscal agent for the North Bay Watershed Association (NBWA)**
Consolidated Concept Proposal for Nonpoint Source Projects Greater San Pablo Bay Area

Cooperating Entity 1: **Sonoma Ecology Center** Cooperating Entity 2: **The Bay Institute**
Grant Requested: **$1,790,000.00** Cost Match: **$870,400.00** Total Project **$2,660,400.00**

A coalition of watershed stakeholders in Marin and Sonoma counties convened to develop this proposal containing fourteen separate projects to improve water quality and aquatic habitat in the North Bay. This proposal addresses nonpoint source water quality and environmental protection problems in the coastal watersheds of the San Pablo Bay area. The fourteen projects target erosion sites and sediment sources, storm water runoff, and nonpoint source pollution using best management practices.

260 **Zone 7 Water Agency**
Livermore-Amador Valley Upper Alameda Creek Watershed Consolidated Proposal

Cooperating Entity 1: **City of Pleasanton** Cooperating Entity 2: **City of Livermore**
Grant Requested: **$3,800,000.00** Cost Match: **$1,290,000.00** Total Project **$4,740,000.00**

This concept proposal includes a number of projects that will help investigate and implement solutions to solve water resources related issues in the Livermore Amador Valley (Valley) and Alameda Creek watershed. The tasks included in this concept proposal build of work being conducted as part of the Stream Management Master Plan (SMMP), a stakeholder driven process that includes input from local agencies; residents and local stakeholder groups; and regulatory agencies.

261 **Imperial County Farm Bureau**
Voluntary TMDL Compliance Program

Cooperating Entity 1: **IID** Cooperating Entity 2: **USDA Natural Resource Conservation Service**
Grant Requested: **$389,606.00** Cost Match: **$68,754.00** Total Project **$458,360.00**

The Voluntary TMDL Compliance Program will continue to inform, educate and assist Imperial Valley growers with the implementation of adopted silt TMDLs. The program will work in concert with the Regional Water Quality Control Board and other agencies to ensure that water quality goals are met according to the timeline by educating and assisting growers with the implementation of Best Management Practices to reduce erosion in irrigation drain water.

262 **The River Project**
A WATERSHED MANAGEMENT PLAN FOR RESTORATION FEASIBIITY OF THE TUJUNGA WASH

Cooperating Entity 1: **Los Angeles & San Gabriel Rivers Watershed Council** Cooperating Entity 2: **Los Angeles County Department of Public Works**
Grant Requested: **$650,000.00** Cost Match: **$0.00** Total Project **$650,000.00**

The River Project will develop, through a stakeholder driven process, a Watershed Management Plan for the Tujunga Wash, a primary subwatershed of the upper Los Angeles River Watershed. The Plan will take an integrated approach to water supply, water quality, ecosystem health and flood protection. We will work with community groups and agencies in an educational outreach effort to organize a steering committee; compile an inventory of existing data into a GIS database; and identify data gaps. The team will then identify goals and objectives; complete a watershed assessment; and utilize research and GIS modeling to fill critical data gaps. We will develop a plan to include a list of actions, programs, potential management strategies, pilot projects and critical areas for monitoring and stewardship, and develop criteria to evaluate the ongoing success of the plan. We will host a Watershed-U and teacher training for all interested stakeholders. The plan will coordinate throughout with the California Watershed Assessment Manual (C-WAM) project.

267 **Placer County Department of Public Works**
Pave Unpaved Placer County "Maintained Roads" Within Tahoe Basin

Cooperating Entity 1: **Tahoe Regional Planning Agency** Cooperating Entity 2: **Lahontan Regional Water Quality Control Board**
Grant Requested: **$327,250.00** Cost Match: **$57,750.00** Total Project **$385,000.00**

The County is requesting $327,250 of grant funds to provide for additional funding of construction costs for paving approximately 1.5 miles of unpaved "County Maintained" roads within the Lake Tahoe Basin. Lake Tahoe has been identified as an Outstanding National Resource Water (ONRW) under the USEPA Water Quality Standards Program and the Clean Water Act. The paving of unpaved roads has also been identified by the TRPA in their Water Quality Management Plan (208 Plan) as a source control measure to address erosion, urban runoff, and surface water management problems, and to reduce sediment and nutrient loads to Lake Tahoe. The paving of unpaved roads will stabilize eroding areas, as well as direct surface waters to existing stable drainage system.

269 CENTRAL UNIFIED SCHOOL DISTRICT
FRESNO-CENTRAL WATERSHED EDUCATION PROGRAM

Cooperating Entity 1: **SAN JOAQUIN RIVER PARKWAY & CONSERVATION TRUST** Cooperating Entity 2: **FRESNO COUNTY DEPT. OF PARKS & RECREATION**

Grant Requested: **$364,498.00** Cost Match: **$0.00** Total Project **$364,498.00**

The Fresno-Central Watershed Education Program seeks to develop and implement a comprehensive watershed education program in Central Unified School District, Fresno, California. The program will provide teachers with the training, cirriculum, tools, transportation, equipment, and support necessary for hands-on educational and service learning activities that increase student achievement, teach environmental stewardship, improve water quality, and perform needed restoration work in the San Joaquin River Watershed.

271 Sotoyome Resource Conservation District
Gualala River Monitoring and Restoration

Cooperating Entity 1: **Gualala River Watershed Council** Cooperating Entity 2: **Circuit Rider Productions**

Grant Requested: **$423,000.00** Cost Match: **$50,000.00** Total Project **$463,000.00**

The Gualala River Watershed Monitoring and Restoration project addresses water quality and environmental protection problems throughout the watershed. The project involves the continutation and expansion of the monitoring and assessment program, continuation of outreach and education to the community as well as an assessment of restoration opportunities on private properties to directly and rapidly reduce erosion and sediment delivery to streams from roads, agricultural operations and historic erosion sites; to reduce water temperatures through implementation of riparian corridor restoration, and increase wildlife and fishery habitats through revegetation and overall site habitat improvements. There is currently several restoration projects identified which are in need of cost share funding. Additional project will be added throughout the project timeframe.

274 Sotoyome Resource Conservation District
Kelly Road Sediment Reduction Project

Cooperating Entity 1: **David Lewers** Cooperating Entity 2: **Pacific Watershed Associates**

Grant Requested: **$1,348,816.00** Cost Match: **$425,020.00** Total Project **$1,771,586.00**

Implement cost-effective erosion control and erosion prevention for 158 sites along 17 miles of Kelly Road within the Gualala River Watershed based on the March 2003 Kelly Road Assessment Summary Report prepared by Pacific Watershed Associates. The implemented work is estimated to reduce and/or eliminate 148,717 cubic yards of sediment delivery to salmonid bearing watercourses in the future.

275 Sotoyome Resource Conservation District
Fish Friendly Farming Program

Cooperating Entity 1: **Laurel Marcus and Associates** Cooperating Entity 2: **Circuit Rider Productions Inc.**

Grant Requested: **$1,050,000.00** Cost Match: **$685,000.00** Total Project **$1,735,000.00**

The Fish Friendly Farming (FFF) program addresses water quality and environmental protection problems in the Russian, Navarro, Gualala River and the Salmon and Greenwood Creek watersheds. FFF involves a comprehensive review of private properties to directly and rapidly reduce erosion and sediment delivery to streams from roads, agricultural operations and historic erosion sites; to reduce water temperatures through implementation of riparian corridor restoration and revisions to water supply facilities; and increase wildlife and fishery habitats through revegetation and overall site habitat improvements. Through the FFF Program landowners are provided the professional technical assistance needed to identify restoration/repair projects and complete detailed farm conservation plans. There is currently a large backlog of sediment reduction and habitat restoration projects that are in need of cost share funding.

276 Sotoyome Resource Conservation District
Bidwell/Franz Creek Restoration

Cooperating Entity 1: **Circuit Rider Productions Inc.** Cooperating Entity 2: **Sonoma Land Trust**

Grant Requested: **$433,000.00** Cost Match: **$102,000.00** Total Project **$535,000.00**

A lack of continuous riparian corridor and disturbance caused by adjacent land use yielding excess sediment input to stream channels has been one of the most significant factors affecting steelhead trout populations in Maacama Creek, its tributaries, including Franz and Bidwell Creeks, and downstream in the Russian River. The work outlined in this proposal represents a significant step toward realization of long-term steelhead habitat improvement through a multi-landowner approach to the repair of the natural riparian corridor. The objective of the proposed project is to implement the recommendations made by DFG to increase the width and complexity of the riparian corridor, resulting in increased stream cover, lower water temperatures, contribution of a long-term source of large woody debris, and augmentation of bank stabilization for the prevention of bank erosion and sedimentation along Bidwell and Franz Creeks.

278 **Contra Costa Resource Conservation District**
Mt. Diablo Creek Watershed CRMP Program

Cooperating Entity 1: **Natural Resouces Conservation** Cooperating Entity 2: **Restoration Advisory Board for Concord Naval Weapons Station**

Grant Requested: **$227,117.00** Cost Match: **$80,636.00** Total Project **$307,753.00**

The goal of the Mt. Diablo Creek Watershed CRMP Program is to facilitate and improve coordination, collaboration and assistance among landowners, municipalities, Mt. Diablo State Park, community organizations, industry, the Navy and citizens of the Mt. Diablo Creek Watershed. The stakeholders will develop and publish a watershed management plan using the CRMP process emphasizing local control, consensus based decision making and voluntary implementation of practices to improve watershed functions in the Mt. Diablo Creek Watershed and Bay-Delta system.

279 **County of Kern (Engineering and Survey Services Department)**
REXLAND ACRES WASTEWATER COMMUNITY SEWER

Cooperating Entity 1: **Self-Help Enterprises** Cooperating Entity 2: **Rexland Acres Committee**

Grant Requested: **$3,701,191.00** Cost Match: **$3,000,000.00** Total Project **$6,701,191.00**

Design and construction of a watstewater collection system to allow properties with failing septic tanks and leach fields in the impoverished community of Rexland Acres to connect to a Public Sewer System.

280 **Georgetown Divide Resource Conservation District**
El Dorado County Coordinated Watershed Improvement Project

Cooperating Entity 1: **USDA - Forest Service - Eldorado National Forest** Cooperating Entity 2: **California Department of Forestry & Fire Protection**

Grant Requested: **$1,585,000.00** Cost Match: **$400,000.00** Total Project **$2,010,000.00**

The Project will complete "on the ground" restoration and protection of targeted areas identified through assessment and planning documents developed by several partner organizations who together comprise the South Fork American River Watershed Group (SFARWG). This project led by the SFARWG, represents the implementation of the CRMP planning processes, while enhancing opportunities for community involvement through watershed stewardship activities. The SFARWG clearly feels that high visibility and the need to address universally recognized problems (i.e. fire hazard and degraded water quality) should be priorities.

281 **El Dorado County Resource Conservation District**
Hangtown Creek Watershed Improvement Project

Cooperating Entity 1: **City of Placerville** Cooperating Entity 2: **Smith Flat Limited Partnership**

Grant Requested: **$1,310,000.00** Cost Match: **$7,750,000.00** Total Project **$9,060,000.00**

The Project will implement "on the ground" restoration and protection projects where great opportunities exist to reduce water quality degredation through improved riparian and aquatic habitats. 1) Removal of sewer lines that currently rest at the bottom of Hangtown Creek, and 2) restore impaired streams within the Smith Flat project area where historic landuses have destroyed natural channels and contribute to sedimentation and bacterial contamination of Hangtown Creek.

282 **Lake County Flood Control and Water Conservation District**
Collaborations and Coordination to Improve Water Quality: An Investment in Community Based Water Quality Partnerships

Cooperating Entity 1: **Lake County Farm Bureau/Mendocino Community College** Cooperating Entity 2: **West and East Lake RCDs/ Upper Putah Creek Stewardship**

Grant Requested: **$1,066,180.00** Cost Match: **$0.00** Total Project **$1,066,180.00**

An umbrella project to: A) Continue and complete projects started under funding sources which are no longer available, B) Expand projects to better meet the desired outcomes C) Extend the time period necessary to adequately complete ongoing projects, D) Provide for linkage with the various stakeholder groups and agencies working in the watersheds of Lake County, E) Meet some of the previously recognized but unmet watershed needs, such as: assessment, monitoring, support to local groups (technical and financial)

283 **North East Trees (NET)**
Arroyo Seco Litter and Dog Waste Interception and Education Program (LDWIEP)

Cooperating Entity 1: **Heal the Bay** Cooperating Entity 2: **Friends of the Los Angeles River (FoLAR)**

Grant Requested: **$281,200.00** Cost Match: **$50,500.00** Total Project **$291,000.00**

This proposal seeks to intercept litter and dog feces before they enter the storm drain system and subsequently the Arroyo Seco and Los Angeles River through a suite of techniques including "poop bags," dog waste bins, trash receptacles and educationsl signage installed in a single sub-watershed of a stormdrain entering the Arroyo Seco. The water quality of the storm drain will be measure before and for three years after project implementation to gage the success of this pilot program. To complement this new infrastructure, community outreach regarding how individual actions, such as leaving dog waste or littler behind, is conducted through the holding of community meetings and through the distribution of educational brochures.

284 North East Trees (NET)
BIMINI ECOLOGY PARK MONITORING

Cooperating Entity 1: **Los Angeles City Bureau of Sanitation Watershed Protection Division** Cooperating Entity 2: **The Los Angeles San Gabriel River Watershed Council**

Grant Requested: **$546,950.00** Cost Match: **$420,000.00** Total Project **$971,720.00**

The BEPM will address both the water quality issues that confront the area and the severe and perhaps dangerous lack of open space that plagues the local community through the development of and construction of a dual-use open space. This proposal seeks to intercept trash, fecal matter, nutrients and toxics before they enter the storm drain system and subsequently Ballona Creek and the Santa Monica Bay through a suite of techniques including trash interceptor, bioswale, infiltration basin and educational signage installed in a single sub-watershed of a stormdrain entering Ballona Creek. The water quality of the storm drain will be measured before and for three years after project implementation to gage the success of this pilot program.

285 North East Trees (NET)
Peck Water Conservation Park Parking Lot Upgrade

Cooperating Entity 1: **Los Angeles Co. Dept. of Recreaiton & Parks** Cooperating Entity 2: **0**

Grant Requested: **$1,067,200.00** Cost Match: **$210,000.00** Total Project **$1,277,200.00**

This project will install a permeable parking lot, a 1.75 acre bioswale with native vegetation, intall drip irrigation, native vegetation, solar panels and cistern, refurbish public restrooms with water and energy conserving features and develop and install interpretive signage

286 North East Trees (NET)
Little Tujunga Canyon Restoration Program

Cooperating Entity 1: **Wildlife WayStation** Cooperating Entity 2: **Los Angeles and San Gabriel Rivers Watershed Council**

Grant Requested: **$1,253,757.00** Cost Match: **$1,324,200.00** Total Project **$2,577,957.00**

Little Tujunga Canyon is a small, largely undeveloped tributary to Tujunga Wash which is, in turn, a major tributary of the highly urbanized Los Angeles River. The Little Tujunga Canyon Restoration Program will improve water quality and habitat in the canyon with two distinct components, each of which will greatly advance the goal of restoring proper functionality to the canyon. While work on each component will proceed individually, both are integral to the program: (1) Development of a landscape master plan to address water quality issues at the Wildlife WayStation, a non-profit animal shelter located in the upper Little Tujunga Canyon watershed, and the construction of native, fire resistant landscaping for the WayStation and (2) Removal of up to 12 acres of Arundo donax from Little

287 North East Trees (NET)
Arroyo Seco Watershed Revitalization Plan

Cooperating Entity 1: **Forest Community Research** Cooperating Entity 2: **County of Los Angeles Department of Public Works Watershed Mgmt Div**

Grant Requested: **$284,900.00** Cost Match: **$0.00** Total Project **$284,900.00**

The Arroyo Seco Watershed Revitalization Plan will be a series of focused working groups, or design charrettes, which will result in a regional plan for the urbanized area of the Arroyo Seco Watershed with site-specific conceptual design detail. The plan will focus design charrettes with experts in the fields of engineering, design, flood managment, water quality, and planning to develop a vision for the a naturalized river greenway along the Arroyo Seco, restored or naturalized tributary streams, and rehabilitated watershed functions through the development of implementable urban watershed designs at specific sites and the development of codes and ordinances for local jurisdictions.

288 North East Trees (NET)
Watershed Housing BMPs Implementation Project

Cooperating Entity 1: **Los Angeles City Bureau of Sanitation Watershed Protection Division** Cooperating Entity 2: **0**

Grant Requested: **$2,007,825.00** Cost Match: **$3,112,500.00** Total Project **$5,120,325.00**

This project will demonstrate innovative and multi-purpose technologies for water conservation, infiltration and cleansing within the scope of a residential/commercial urban infill development. Landscaped areas, driveways, parking lots, walkways, plazas and residential water usage will be addressed through appropriate BMP design and implementation including elements such as native planting, drip irrigation, roof runoff capture, permeable paving, bio-swales and gray water systems, greatly enhancing the site's ability to reduce runoff and improve water quality and conserve water. Artistic and interpretative signage will be incorporated to address the educational component of the project, located on a high-profile site adjacent to the Avenue 26 Goldline Station and the Los Angeles

289 North East Trees (NET)
Madison/Middlebury Biofiltration Retrofit (MMBR)

Cooperating Entity 1: **Los Angeles City Bureau of Sanitation Watershed Protection Division** Cooperating Entity 2: **Los Angeles City Council District 13 Eric Garcetti**

Grant Requested: **$679,910.00** Cost Match: **$120,000.00** Total Project **$799,910.00**

The MMBR will address both the water quality issues that confront the area and the severe and perhaps dangerous lack of open space that plagues the local community through the development of and construction of a dual-use open space. This proposal seeks to intercept trash, fecal matter, nutrients and toxics before they enter the storm drain system and subsequently Ballona Creek and the Santa Monica Bay through a suite of techniques including trash interceptor, bioswale, infiltration basin and educational signage installed in a single sub-watershed of a stormdrain entering Ballona Creek. The water quality of the storm drain will be measured before and for three years after project implementation to gage the success of this pilot program.

291 Ecology Action oc Santa Cruz
Integrated Pest Managemnt Technical Assistance to Professional Landscapers Gardeners and Schools

Cooperating Entity 1: **County and City of Santa Barbara** Cooperating Entity 2: **Marin County Model School Program**

Grant Requested: **$665,260.00** Cost Match: **$99,789.00** Total Project **$765,049.00**

The purpose of the proposed project is to reduce non point source urban pesticide and fertilizer pollution from commercial landscapers and school districts. This will be achieved by implementing comprehensive IPM programs in the Monterey Bay Area, and formalizing the program components into off-the-shelf materials to disseminate for easy program replication by other California communities. The two primary project areas are a Green Gardener training and certification program, and a Model Schools IPM training, facilitation and implementation program. Please see the project narrative for discussion, and the supplemental information for a Project Scope Chart containing detailed objectives and key deliverables for the project.

292 Ecology Action of Santa Cruz
Manure and Erosion Pollution Prevention from Livestock Facilities

Cooperating Entity 1: **Santa Cruz County Resource Conservation District** Cooperating Entity 2: **Loma Prieta and San Benito County Resource Conservation Districts**

Grant Requested: **$791,400.00** Cost Match: **$186,025.00** Total Project **$977,425.00**

The purpose of this project is to achieve immediate and lasting reductions in nutrient and sediment pollution to surface and ground waters from livestock facilities in the project region of Santa Cruz, San Benito and South Santa Clara Counties. The proposed project utilizes a voluntary and incentives based approach to achieving the cultural change required for livestock facilities to adopt management measures that are protective of water quality. Specific project tools include: development of Stakeholder and Technical Advisory Groups to inform the project and dialogue effectively, provision of high quality trainings and technical assistance, development of a knowledge base within the livestock community via a peer leader program, and analysis and development of a cost effective pilot program to haul and/or compost manure from small livestock operations.

293 San Francisco Estuary Institute
Implementation and Evaluation of TMDL Strategies for Sediment-Associated Contaminants

Cooperating Entity 1: **Clean Estuary Partnership** Cooperating Entity 2: **Bay Area Clean Water Agencies**

Grant Requested: **$2,000,000.00** Cost Match: **$0.00** Total Project **$2,000,000.00**

The San Francisco Estuary Institute (SFEI) and the Bay Area Clean Water Agencies (BACWA) propose to implement, evaluate, and refine TMDL implementation strategies for the control of a class of San Francisco Bay-listed contaminants that are primarily associated with sediment particles. By testing and evaluating the effectiveness of various control strategies, we will begin the process of TMDL implementation and provide the San Francisco Bay Regional Water Quality Control Board and NPDES permitees with information necessary for evaluating long-term TMDL implementation plans.

294 Tehama County Resource Conservation District
The Tehama West Watershed Management Program

Cooperating Entity 1: **Department of Water Resources** Cooperating Entity 2: **0**

Grant Requested: **$460,775.00** Cost Match: **$17,200.00** Total Project **$462,188.00**

Purpose: To identify and quantify water and watershed pollution, and constituents of concern. To continue education and outreach for landowners thruogh citizens based monitoring efforts linking land health to profitability. To continue restoration and community participation in natural resource conservation by coordinating a variety of on the ground action projects. To develop a watershed management plan by integrating data collected, stakeholder input, and the currently funded Watershed Assessment.

295 Tehama County Resource Conservation District
Inventory of Wildland Roads in Tehama and Glenn Counties

Cooperating Entity 1: **California Department of Fire and The United States Forest Service** Cooperating Entity 2: **Tehama County Glenn County and Glenn County RCD**

Grant Requested: **$247,270.00** Cost Match: **$92,800.00** Total Project **$340,070.00**

Purpose: To determine the location and extent of road erosion in Tehama and Glenn Counties by conducting a road inventory. To provide technical assistance and resources to road crew and landowners on Best Management Practice (BMP) implementation through workshops and improvement projects. To create a database where road erosion projects can be prioritized and BMP efforts monitored over time.

296 **Tehama County Resource Conservation District**
Irrigation Mobile Lab

Cooperating Entity 1: **University of California Cooperative Extension** Cooperating Entity 2: **USDA - NRCS**

Grant Requested: **$360,879.00** Cost Match: **$0.00** Total Project **$360,879.00**

Purpose: To provide irrigation system evaluations and technical support for irrigators in Tehama and the surrounding counties. This service is designed to assist local growers with improving on-farm water use efficiency, reducing runoff of fertilizers and pesticides, reducing soil erosion, and reducing energy use.

297 **Lake County Sanitation District**
FULL CIRCLE

Cooperating Entity 1: **Lake County Water Resources Division** Cooperating Entity 2: **Lake County Environmental Health**

Grant Requested: **$540,000.00** Cost Match: **$359,000.00** Total Project **$899,000.00**

Planning and design of the final segment of the County water reuse pipeline encircling Clear Lake for purposes of eliminating wastewater-related nutrient pollution of Clear Lake.

298 **California Sportfishing Protection Alliance**
Suisun Creek Watershed Program

Cooperating Entity 1: **City of Vallejo** Cooperating Entity 2: **Napa County Farm Bureau**

Grant Requested: **$580,000.00** Cost Match: **$187,000.00** Total Project **$747,000.00**

Over the past 3 years CSPA in conjunction with local landowners, agencies and the SCRT (see #11 below) has completed direct monitoring of water quality and temperature, summer flow, stream channel and riparian corridor conditions as well as completed a watershed assessment for the overall watershed. This proposal is for: implementation of the first set of actions identified as priorities by the SCRT with landowner cooperation including re-operation of a major reservoir to increase water supply reliability; a set of restoration actions for riparian corridors and invasive plant removal, establishment of the Fish Friendly Farming program to implement watershed management on private lands, on-going monitoring activities to implement the adaptive management approach to restoration; and local capacity building amongst landowners and the community. Suisun Creek watershed is one of the few Bay Area watersheds without major urbanization and currently supports wild steelhead and has the potential to sustain these populations.

299 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protection Division**
Payne Foundation Stormwater Management Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$240,000.00** Cost Match: **$40,000.00** Total Project **$275,000.00**

Stormwater BMPs will be implemented to retain stormwater, increase groundwater infiltration, and reduce community impacts resulting from sedimentation and flooding. Project will incorporate California native plants as a significant element for habitat preservation. Project will serve as a demonstration of stormwater management techniques in an urban setting, with native plants as a cornerstone element of the landscape presentation.

300 **San Francisco Estuary Institute**
Web-based Community GIS for Sharing Watershed Information

Cooperating Entity 1: **United States Geological Survey** Cooperating Entity 2: **Oakland Museum/William Lettis & Associates**

Grant Requested: **$430,000.00** Cost Match: **$0.00** Total Project **$430,000.00**

The project will complete and provide the GIS data comprising a basic characterization of the watersheds of the San Francisco Estuary, track information on watershed restoration and water quality enhancement capital projects, and make this information available through a web browser interface that will also serve as a watershed group file exchange and resource directory.

301 **Santa Clara Valley Water District**
Pilot project and computational model for hydromodification and water quality solutions to reduce erosion sediment transport and pollution in semi-arid climate conditions

Cooperating Entity 1: **Clean South Bay and Watershed Management Initiative** Cooperating Entity 2: **Santa Clara Valley Urban Runoff Pollution Prevent Program**

Grant Requested: **$1,370,000.00** Cost Match: **$925,000.00** Total Project **$2,295,000.00**

The project has two components: (1) Design and implement a pilot in-stream restoration project to satisfy the hydromodification requirements from existing and new developments; (2) Develop two interlinked models based on HSPF/Basins 3 software based on monitoring rainfall, runoff, erosion, to predict sediment transport and water quality as a function of in-stream improvements implemented for hydromodification, such as grade controls, slope, sinuosity, and bioengineering techniques. The model will allow the user (developer, District,City, etc) to size structures such that post development erosion matches preurban conditions, while accounting for the cumulative effect of both new and existing development; the second model will compute the improvement in water quality through reduction in sediment generation, transport, biodegradation of organics and removal of TSS in restored stream segments.

302 Stewards of Slavianka
Fife Creek Sediment Source Reduction Project

Cooperating Entity 1: **Department of Parks and Recreation** Cooperating Entity 2:**Department of Parks and Recreation**
Grant Requested: **$428,998.00** Cost Match: **$79,831.00** Total Project **$508,829.00**

The Fife Creek Sediment Source Reduction Project will implement Pacific Watershed Associate's (PWA) prescribed work for trail upgrading, maintenance and decommissioning along major trails at Armtstrong Redwoods State Reserve and Austin Creek State Recreation Area. The sediment source analysis done by PWA in 2001 indicates that a large percentage of the proposed treatment sites have future erosion that will deliver approximately 4,919 cubic yards of sediment to Fife Creek over the next decade if they are not

303 California Department of Forestry and Fire Protection
Road Improvements to Reduce Sediment in the Noyo Watershed on Jackson Demonstration State Forest

Cooperating Entity 1: **City of Fort Bragg** Cooperating Entity 2:**0**
Grant Requested: **$450,428.00** Cost Match: **$126,606.00** Total Project **$617,035.00**

This project will reduce road maintenance intensity and improving drainage through outsloping, rolling dips, increased ditch relief frequency, and improving watercourse crossings in areas identified by the Jackson Demonstration State Forest Road Management Plan. The benifits of this project are non-point source sediment delivery reduction to a TMDL watershed that is the domestic water supply watershed for the city of Fort Bragg and provide a demonstration of sediment reduction techniques to small landowners. Monitoring methods will also be demonstrated to landowners through this project.

304 California Department of Forestry and Fire Protection
Fish Barrier Removal and Meadow Improvement on LaTour Demonstration State Forest

Cooperating Entity 1: **Pacific Southwest Research Station** Cooperating Entity 2:**0**
Grant Requested: **$360,000.00** Cost Match: **$60,000.00** Total Project **$420,000.00**

This project will improve stream and riparian habitat and enhance water quality by removing a fish barrier and restoring a meadow. The fish barrier will be removed by relocating a road crossing on Beaver Creek, a tributary to South Cow Creek. The meadow restoration will be at South Cow Creek Meadow and will also involve relocating a road crossing along with the removal of sediment and restoring original channel.

305 City of Los Angeles Department of Recreation and Parks
ARTIFICIAL TURF SPORTS FIELD INSTALLATION AT GRIFFITH PARK FERRARO SOCCER FIELDS

Cooperating Entity 1: **Los Angeles Department of Water and Power** Cooperating Entity 2:**0**
Grant Requested: **$1,600,000.00** Cost Match: **$400,000.00** Total Project **$2,000,000.00**

Convert two existing competition soccer fields from natural turf to artificial turf. Remove existing irrigation systems, excavate for subsurface drainage system and install base material, grass yarn playing surface, cushioning rubber and perimeter curbs. Immediate savings in irrigation water will result with attendant reductions in urban runoff.

306 City of Los Angeles Department of Recreation and Parks
CITY PARK IRRIGATION EFFICIENCY PROGRAM

Cooperating Entity 1: **Los Angeles Department of Recreation and Parks** Cooperating Entity 2:**0**
Grant Requested: **$1,200,000.00** Cost Match: **$300,000.00** Total Project **$1,500,000.00**

This project entails improving the irrigation system efficiency by approximately 20% at 41 Los Angeles City parks (annual savings of 240 acre feet of potable water are anticipated). It greatly expands the deployment of a currently used irrigation water controller system known as CalSense. Funding will replace 135 traditional controllers that irrigate approximately 357 acres (currently utilizing 1,200 acre/feet/year) with 135 new CalSense controllers.

307 City of Los Angeles Department of Recreation and Parks
POTRERO CANYON RIPARIAN RESTORATION PROJECT

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$4,000,000.00** Cost Match: **$1,000,000.00** Total Project **$5,000,000.00**

The project involves construction of 7.8 acres of riparian habitat and 22 acres of coastal sage scrub and related landscape improvements on top of an engineered fill in a coastal canyon designed to provide stability of the walls of the canyon.

308 City of Los Angeles Department of Recreation and Parks
HAZARD PARK RIPARIAN RESTORATION PROJECT

Cooperating Entity 1: **North East Trees** Cooperating Entity 2:**0**
Grant Requested: **$1,600,000.00** Cost Match: **$400,000.00** Total Project **$2,000,000.00**

Bank and in-stream biological water treatment for rehabilitating an existing wetland that is an historic tributary for the Los Angeles River and as habitat.. Improvement of wetland habitat to include removal of invasive and exotics plant species, grading, planting, irrigation, and re-establishment of a riparian habitat and including mycorhizzal cultures. Project benefits are to include local trail connection and greenway route, pedestrain bridge, erosion control, improvement of local water quality and stormwater runoff, and a resource for public education and outreach.

310 **City of Los Angeles Department of Recreation and Parks**
ERNEST E. DEBS REGIONAL PARK RIPARIAN RESTORATION PROJECT

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$2,368,000.00** Cost Match: **$592,000.00** Total Project **$2,960,000.00**

Bank and in-pond biological water treatment for an existing pond that provides both habitat on the Pacific Flyway and a recreational destination. Improvement of aquatic habitat for the pond and adjacent cascades to include aeration, trash capture system, establishment of a riparian plant material at the pond, restoration of a native walnut woodland within the park, plant propagation from local arroyo and park native plant stock, and removal of invasive and exotic plant species from the park and trails system. Project benefits are to include restoration of native habitat, erosion control, improvement of water quality in pond and stormwater runoff, mycorrhizal innoculation of disturbed and fill soils, a pilot plant nursery project, and resource for public education.

311 **Coarsegold Resource Conservation District**
Demonstation of on-farm vegetated buffers for reducing NPS pathogen pollution into tributaries of the Fresno and San Joaquin Rivers

Cooperating Entity 1: **School of Veterinary Medicine University of California-Davis** Cooperating Entity 2: **Fresno Economic Opportunties Commission / Calif. Conservation**
Grant Requested: **$321,103.00** Cost Match: **$65,044.00** Total Project **$386,148.00**

This project will develop and implement on-farm vegetated buffers as a demonstration project for how to reduce microbial contamination of foothill tributaries draining into the Fresno and San Joaquin Rivers. In addition, we will conduct field days, workshops, and develop training manuals for how to install and monitor vegetated buffers and how to better monitor pathogen water quality from non-irrigated pasture runoff. This project will enhance the ability of local communties, regulatory agencies, watershed groups, and animal agriculture operators to effectively monitor water quality and implement intervention strategies.

312 **LandPaths**
Santa Rosa Creek Headwaters Sediment Delivery Reduction: Donnels Property Massisve Dam Rehabilitation

Cooperating Entity 1: **Sonoma County Water Agency** Cooperating Entity 2: **California Department of Fish & Game**
Grant Requested: **$690,000.00** Cost Match: **$125,000.00** Total Project **$815,000.00**

The project site is owned by a private landowner who constructed an earthen dam in the 1960's, borrowing material from behind the dam. The dam, which is approximately 800 feet long and 90, breached shortly after construction and has been contributing large amounts of sediment to an area of prime Steelhead habitat ever since. The project would stabilize the dam and borrow areas through earthwork and revegetation and re-establish the channel to prevent further erosion on the site.

313 **Camp Meeker Recreation and Park District**
Dutch Bill Creek Fish Passage Project

Cooperating Entity 1: **Gold Ridge Resource Counservation District** Cooperating Entity 2: **Sonoma County Deartment of Transportation and Public Works**
Grant Requested: **$288,995.00** Cost Match: **$205,573.00** Total Project **$494,568.00**

The project will restore endangered Coho salmon and Steelhead passage to the upper Dutch Bill Creek watershed by addressing two of the top five fish passage barriers in Sonoma County. The summer flashboard-type dam on Dutch Bill Creek at Camp Meeker will be removed and the impound area above the dam restored to it's orarediginal condition. Weirs will be installed to provide fish passage up to and through the box culvert just downstream of the dam at the Market Street stream crossing. The two projects together will allow native Coho salmon, captured downstream of the project site and reared at the Don Clausen Fish Hatchery, to be reintroduced to Dutch Bill Creek, reestablishing the historic runs.

314 **Camp Meeker Recreation & Park District**
Camp Meeker Septic to Sewer Conversion Project

Cooperating Entity 1: **Sonoma County Water Agency** Cooperating Entity 2: **U.S. Department of Agriculture - Rural Development**
Grant Requested: **$1,000,000.00** Cost Match: **$7,978,000.00** Total Project **$8,978,000.00**

The project will eliminate a declared public health hazard by constructing a sewer collection system for approximately 300 residences and other structures in Camp Meeker. Approximately 75% of septic systems in this once summer-home community are failing, resulting in untreated wastewater flowing into the ajacent surface waters of Dutch Bill Creek, a tributary to the Russian River. These dangerous discharges result in public health hazards for Camp Meeker and several other dowstream communities, as well as beachgoers near the confluence with the Pacific Ocean at Jenner.

315 **Orange County Outdoor Science Foundation**
Watershed Education Project

Cooperating Entity 1: **Inside the Outdoors** Cooperating Entity 2: **County Superintendent of Schools**
Grant Requested: **$320,000.00** Cost Match: **$116,284.00** Total Project **$436,284.00**

The Watershed Education Project will educate students in Orange, Riverside, and San Bernardino counties about the issues facing their watersheds. "Drip Drop" will be a Traveling Scientist program in which a 60 - 75 minute lesson, including information and hands-on activities, will be provided to students at their school. The information students have learned will be showcased through a Family Science Night in which their parents and other community members will be taught the same information by the students. In addition, students in Outdoor Science School and the Field Programs will receive instruction on urban runoff pollution prevention through science

316 **Central Sierra Resource Conservation & Development Council**
Dry Creek Watershed Assessment

Cooperating Entity 1: **City of Sutter Creek** Cooperating Entity 2: **Amador County**
Grant Requested: **$727,000.00** Cost Match: **$85,000.00** Total Project **$812,000.00**

Inventory: potential point & non-point pollution contributors, land ownership & stakeholders, fuel loading and vegetative types, urban stream opportunities for education & access, channel stream attenuation relative to flooding, road & highway impacts, land use to facilitate watershed treatments & decisions, all related water courses, impacts from waste water treatment facilities. Organize CRMP, revise HUA, classify water courses, identify demonstration/education sites. Prepare a water quality monitoring plan.

319 **California Department of Fish and Game**
Caulerpa taxifolia Surveillance and Eradication Program

Cooperating Entity 1: **Merkel & Associates** Cooperating Entity 2: **0**
Grant Requested: **$2,526,000.00** Cost Match: **$505,200.00** Total Project **$3,031,200.00**

The Caulerpa taxifolia Eradication Program is a community supported, broad based, on-the-ground wetland/coastal habitat restoration effort. This project has thus far showed positive results and includes the following components: survey for, identify and treat infestations of Caulerpa taxifolia, a non-native aquarium strain of a highly invasive tropical algae that displaces native habitat and dependent species. Full eradication of Caulerpa taxifolia is the primary and fundamental goal of the project while providing continued public outreach and education regarding this project and the destructive nature of this invasive species. An additional goal is to develop a rapid response program to any new infestations as well as additional surveillance at high priority sites throughout Southern California

320 **Los Angeles County Flood Control District**
SAN FERNANDO TRASH REDUCTION MULTIUSE PROJECT

Cooperating Entity 1: **City of Los Angeles Department of Transportation** Cooperating Entity 2: **Los Angeles County Metropolitan Transportation Authority**
Grant Requested: **$1,200,000.00** Cost Match: **$1,200,000.00** Total Project **$2,400,000.00**

The San Fernando Trash Reduction Multiuse project is located in the Pacoima area in the City of Los Angeles. The project proposes to cover 2,200 feet of an open flood control channel to prevent the illicit dumping of trash and debris. This water quality enhancement wll aid in implementing the existing trash Total Maximum Daily Load (TMDL) for the Los Angeles River. A greenway will be created by landscaping above and alongside the covered channel with native trees and vegetation, which will provide aesthetic and habitat value enhancements and revitalize this dense, urban area.

321 **Los Angeles County Flood Control District**
Sun Valley Middle School Multiuse

Cooperating Entity 1: **Los Angeles Unified School District** Cooperating Entity 2: **City of Los Angeles Department of Public Works**
Grant Requested: **$1,075,000.00** Cost Match: **$925,000.00** Total Project **$2,000,000.00**

The Middle School Multiuse project will convert an average school yard in the heavily flooded Sun Valley area into a water conservation, flood mitigation, and water quality treatment multiuse site. The location also promotes increased educational opportunities and provides additional strategic tree-planting/beautification opportunities to shade the air conditioning units and lower the energy consumption at the school. These benefits would be realized by capturing upstream runoff, conveying the water through an underground treatment and storage/infiltration system, and then using the stored water for irrigation of the school property.

322 **Los Angeles County Flood Control District**
Dominguez Gap Wetlands Multiuse Project

Cooperating Entity 1: **City of Long Beach** Cooperating Entity 2: **Water Replenishment District**
Grant Requested: **$2,298,000.00** Cost Match: **$1,043,000.00** Total Project **$3,341,000.00**

The Dominguez Gap Spreading Grounds is owned and operated by the County of Los Angeles Department of Public Works and consists of two basins, one on each side of the Los Angeles River. The project proposes to develop extensive wetland and riparian habitat in the east basin to enhance water quality before infiltration in the west basin. The entire 37-acre site will be developed with passive recreational facilities, providing a mile-long corridor of habitat and open space along the Los Angeles River.

323 **Humbold County Resource Conservation District**
Lower Eel River Delta Cooperative Sediment Reduction and Water Quality Improvement Program Phase II

Cooperating Entity 1: **Northwest Resource Consultants** Cooperating Entity 2: **Department of Fish and Game**
Grant Requested: **$443,000.00** Cost Match: **$81,000.00** Total Project **$524,000.00**

Following recommendations of existing planning documents, target conditions for the project area are: 1) restore/protect water quality and environment of the Eel River Estuary through the reduction of sediment delivery from hillslope sources to watercourses; 2) improvement of riparian canopy with the eventual improvement of stream water temperatures within the lower Eel River and estuary; 3) improvement of spawning gravel/channel complexity for the federally listed threatened coho and chinook salmon, and steelhead trout within the lower Eel River and estuary. This project (with an anticipated outcome of 10-25 on-the-ground implementation projects) will address the causes of water quality degradation rather than the symptoms, and is very consistent and directly related to the State's Nonpoint Source Control Program.

324 Regents of The University of California
The Biologically Integrated Vineyard Systems Initiative: A Multi-Regional Approach to Protect California

Cooperating Entity 1: **San Francisco Estuary Institute** Cooperating Entity 2:**Community Alliance with Family**
Grant Requested: **$2,755,275.00** Cost Match: **$723,830.00** Total Project **$3,479,105.00**

The proposed project would support an intitiative to promote, evaluate, and refine biologically integrated vineyard systems in the several regions of California. Components of this proposal can be funded from separate pots of money, if regional or other considerations so dictate. The proposed initiative will provide the Central Coast, North Coast, Central Valley, and San Francisco Bay regions with: (1) Sustainable viticulture extension projects to address vineyard water quality issues; (2) Projects that restore compositional, structural, and functional biodiversity to streams and associated riparian zones that border vineyards; (3) Monitoring to assess impacts of cover cropping, pesticide reduction (including reduction of triazine herbicides), and riparian restoration on run-off, erosion, water quality, and freshwater biodiversity; (4) University and college curricular development to enrich viticulture coursework and funding to enable sustainably managed experimental vineyards; (5) Comparison of monitoring results to results from use of a recently developed statewide grower/winery assessment system that ranks farming practices relative to environmental protection; (6) An annual conference that enables multi-regional dialogue about the foregoing items.

325 Irvine Ranch Water District
City of Tustin Wick Irrigation Run-off Reduction Project

Cooperating Entity 1: **City of Tustin** Cooperating Entity 2:**0**
Grant Requested: **$512,704.00** Cost Match: **$120,650.00** Total Project **$633,354.00**

Wick irrigation is a new irrigation technology that has been demonstrated to eliminate irrigation run-off in a small pilot test in the proposed project area. The project will expand the use of this technology and eliminate irrigation run-off from a section of one of the major throroghfares in Orange County. The reduction in irrigation run-off will also reduce the levels of pesticides and other pollutants from entering the natural waterways and ultimately coastal areas of Orange County.

326 Irvine Ranch Water District
Streetscape Run-off Reduction Project

Cooperating Entity 1: **City of Irvine** Cooperating Entity 2:**City of Lake Forest**
Grant Requested: **$533,000.00** Cost Match: **$349,125.00** Total Project **$882,125.00**

This project involves installing weather-based irrigation controllers at city streetscapes in the cities of Irvine, Lake Forest and Tustin. The improvement in the irrigation scheduling resulting from this technology will reduce run-off and improve water use efficiency at the sites. As a result, pollutants from the sites including pesticides and fecal chloriform will remain and degrade on site, instead of entering the natural waterways. In addtion, levels of petrochemical hydrocarbon pollutants which are also conveyed through the irrigatin run-off on major city streets will be reduced.

327 Stanislaus National Forest
Granite Watershed Enhancement Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$573,000.00** Cost Match: **$0.00** Total Project **$573,000.00**

This proposal seeks funding to implement watershed enhancement treatments within the Granite Burn area in the Jawbone and Cherry Creek watersheds, which are tributaries to the Tuolumne River near Cherry Lake on the Stanislaus National Forest in eastern Tuolumne County. The treatments include improving hydrologic function within 92 acres of meadows, treatment of over 7000 feet of unstable stream channel and decommissioning of approximately 17 miles of roads. These treatments would stabilize existing sediment sources in the watershed that are impacting water and aquatic habitat quality. Treatments would also enhance riparian vegetation and wildlife habitat.

328 Stanislaus National Forest Summit Ranger District
Summit Road Decommissioning Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$474,000.00** Cost Match: **$0.00** Total Project **$474,000.00**

This proposal seeks funding to decommission approximately 30 miles of roads and convert about 22 miles of roads to trails on the Summit Ranger District of the Stanislaus National Forest in northwestern Tuolumne County. Non-beneficial or unauthorized roads that were determined to be damaging the environment have been identified for decommissioning or conversion. Implementation actions may include deep tilling to restore compacted soil, revegetating or adding needed ground cover to control soil erosion, blocking road entrance points, waterbarring, and pulling culverts. Some road segments may also be recontoured to control erosion and restore hillslope processes.

329 **Moss Landing Marine Laboratories**
Implementation of the Moro Cojo Slough Management and Enhancement Plan: Restoration of the Core of the Watershed

Cooperating Entity 1: **Coastal Conservation and Research (A non-profit)** Cooperating Entity 2: **Creative Environmental Conservation (A non-profit)**

Grant Requested: **$1,097,000.00** Cost Match: **$310,000.00** Total Project **$1,407,000.00**

This project will implement the Moro Cojo Restoration and Management Plan, the Northern Salinas Valley Watershed Restoration Plan and the Central Coast Regional Toxic Hotspot Plan (for Moss Landing Harbor) through the restoration of more than 650 acres of wetlands, riparian corridors, and upland areas within the Moro Cojo Slough watershed and the lower Castroville Sloughs. This project will result in dramatic improvements in the natural watershed function of most of the Moro Cojo Slough watershed and within the lowermost portion of Castroville Slough. Improvements in watershed function will include significant increases in (1) capture of pollutant laden sediments, (2) photodegradation of pesticides in ponded water, (3) breakdown of nutrients by wetland plants and microbial processes, (4) aquifer recharge rates, and (5) the quantity and quality of wetland and upland wildlife habitats.

330 **Sacramento River Watershed Program**
Sacramento River Watershed Program - Program Support

Cooperating Entity 1: **Larry Walker Associates** Cooperating Entity 2: **Pacific EcoRisk**

Grant Requested: **$4,935,000.00** Cost Match: **$665,000.00** Total Project **$5,600,000.00**

The Sacramento River Watershed Program (SRWP) is an established regional stakeholder-based program with activities focused on (1) monitoring the Sacramento River watershed (including tributaries) to assess the long term health of these waterbodies, (2) education and outreach to raise awareness of how human activities affect watershed health and to encourage the public to take action to avoid or mitigate activities that result in increased pollution or degradation of waterbodies, and (3) developing water quality management strategies to address toxicants in the watershed. The Program itself provides a network for building a basin wide context for local efforts to improve watershed health and to ensure that the diverse interests of all the stakeholders in the watershed are represented in the development of policies, programs, and activities in the watershed. This proposal is to support for key elements and activities conducted by this group.

331 **Sacramento River Watershed Program**
More Oxygen Less Mercury: A feasibility assessment for reducing mercury concentrations in fish through dissolved oxygen management

Cooperating Entity 1: **USGS** Cooperating Entity 2: **Applied Marine Sciences Inc**

Grant Requested: **$1,390,000.00** Cost Match: **$248,000.00** Total Project **$1,638,000.00**

This proposal is Phase-1 of what is contemplated as an adaptive implementation project to reduce mercury exposure to people through manipulation of water quality factors that affect methylmercury production rates. Based on observed relationships and mechanistic linkages between low dissolved oxygen and high methylation rates, Phase-1 will investigate the feasibility, applicability, and cost vs. benefits of oxygenation and aeration projects to minimize methylmercury production in lakes. The project will combine small-scale experiments with reservoir surveys, monitoring, engineering assessments, and public outreach events such as fish derbies, risk communication, and technical review panel workshops to facilitate a public evaluation of the costs, mercury risk reduction benefits, ancillary benefits, and constraints of projects such as oxygenation, aeration, and nutrient load reduction as part of a mercury risk reduction plan.

333 **Westside Resource Conservation District (WRCD)**
Cantua Creek Restoration Implementation Project

Cooperating Entity 1: **Natural Resource Conservation** Cooperating Entity 2: **California Department of Water Resources**

Grant Requested: **$500,000.00** Cost Match: **$75,000.00** Total Project **$575,000.00**

Design and Implementation of Best Management Practices (BMPs) recommended by the Cantua Creek Natural Resource Assessment currently underway and to be completed by May 2004.

334 **Southern California Coastal Water Research Project**
Assessment of Water Quality Loadings From Natural Landscapes

Cooperating Entity 1: **City of Los Angeles** Cooperating Entity 2: **Los Angeles Regional Water Quality Control Board**

Grant Requested: **$922,000.00** Cost Match: **$185,000.00** Total Project **$1,107,000.00**

The proposed project will evaluate natural background loadings of nutrients, bacteria, metals, and organic carbon from undeveloped catchments during both the wet and dry season, and relate these loadings to watershed properties, such as geology and land cover. In addition, baseline flow, algae, and benthic macroinvertebrates will be measured. This information will help provide baseline data for use in development of numerous TMDLs and in the design of implementation measures for the TMDL, NPDES, and NPS programs.

335 Southern California Coastal Water Research Project
Development of Watershed Guidelines for Minimizing the Effect of Impervious Cover on Stream Condition

Cooperating Entity 1: **County of Los Angeles** Cooperating Entity 2: **City of Los Angeles**
Grant Requested: **$408,700.00** Cost Match: **$125,000.00** Total Project **$533,700.00**

The proposed project will investigate the relationship between impervious cover and stream quality (building upon work conducted in other regions of the country). The goal of this project is to develop a management tool(s) that will aid in setting numeric sizing criteria for future developments. The project will also evaluate the effectiveness of various non-point source management measures and BMPs at offsetting the effects of increased impervious surface on stream quality.

336 Aquatic Protection Agency
California Coastline Survey Project

Cooperating Entity 1: **All California Coastal Counties. Department of Environmental Health** Cooperating Entity 2: **NOAA Monterey Bay National Marine Sanctuary**
Grant Requested: **$602,466.00** Cost Match: **$106,318.00** Total Project **$708,784.00**

The Aquatic Protection Agency will be regularly monitoring the California Coastline for illegal toxic pollution including toxic metals, chemicals and testing for indicator bacteria targeting sewage. We will be testing heavily for any TMDLs on the 303D list to identify sources of pollution for elimination. Special consideration will be given to "First Flush" testing waters 24 hours a day taking thousands of samples.

337 Laguna de Santa Rosa Foundation
LAGUNA LANDOWNER PARTNERSHIPS FOR SEDIMENT REDUCTION & HABITAT RESTORATION

Cooperating Entity 1: **Circuit Rider Productions** Cooperating Entity 2: **Gold Ridge Resource Conservation District**
Grant Requested: **$994,000.00** Cost Match: **$248,500.00** Total Project **$1,242,500.00**

Working with agency and private partners, perform outreach to landowners in and adjacent to the Laguna; with willing landowners (two have been cultivated already), provide fencing of riparian areas to prevent livestock from entering, restore riparian habitats thus protected to enhance habitat values and reduce sedimentation, provide education on BMPs to reduce sedimentation. In cases where alternate water sources for livestock are needed when access to Laguna is removed, develop these sources for landowners. Facilitate acquisition projects when possible to compensate landowners for lands removed from economic production. Estimate acreage of riparian habitat to be restored: 50; estimated linear feet of riparian habitat fenced: 10,000; estimated number of landowner partners:

338 University of California Cooperative Extension
Identification and Control of Nonpoint Source Pollution in California Coastal Watersheds

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$985,575.00** Cost Match: **$108,000.00** Total Project **$1,357,050.00**

This project will build upon the progress and inroads of the University of California Cooperative Extension Ranch and Vineyard Water Quality Planning Short Courses to work with local ranchers, dairy managers, and grape growers to identify and control surface water nonpoint source pollution. Specifically, we will follow up with previous course participants to assist them with the completion and implementation of ranch and vineyard water quality management plans. In addition, we will initiate and conduct two years of water quality monitoirng for bacteria, sediment, nutrients, and temperature in Russian River Watershed tributary streams.

340 City of La Mirada
Foster Park Storm Drain System Improvements

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$1,557,085.00** Cost Match: **$2,439,325.00** Total Project **$3,996,410.00**

The Foster Park region in the City of La Mirada is an older section of the City and lacks adequate drainage facilities within the streets. The City plans on adding 24 new catch basins and improving the current storm drain system. This will give the City the opportunity to implement several BMPs, such as catch basins inserts, porous asphalt, and adding trees to slow water flow.

341 Upper San Gabriel Valley Municipal Water District
Olive Sports Park Water Efficient Landscape Project - Phase II

Cooperating Entity 1: **Baldwin Park National Little League** Cooperating Entity 2: **Baldwin Park Unified School District**
Grant Requested: **$73,753.00** Cost Match: **$209,812.00** Total Project **$283,565.00**

The irrigation system of Fields 3 and 4 of the Olive Sports Park will be retrofitted utilizing state-of-the-art technology that will include: an automated evapotranspiration tracking (Et0) system, moisture sensors, rain shut-off devices and turf seed specially developed for the Southern California climate. The retrofit of these fields will increase water use efficiency while reducing urban run-off.

343 **Adopt-A-Watershed**
BRIDGING EDUCATION AND WATERSHED MANAGEMENT

Cooperating Entity 1: **California Stormwater Quality Association (CASQA)** Cooperating Entity 2: **California Environmental Education Foundation**

Grant Requested: **$656,400.00** Cost Match: **$98,460.00** Total Project **$754,860.00**

Adopt-a-Watershed, the California Stormwater Quality Association and the California Environmental Education Foundation will bring watershed management education into schools which will achieve priorities of CALFED, SWRCB, Department of Education, CALEPA, and the Resources Agency. Capitalizing on the leadership roles of AAW, CASAQA, and CEEF in ongoing statewide planning processes, we will facilitate the coordinated implementation of watershed protection and education plans.

345 **City of San Buenaventura (Ventura)**
Construction of Beach Water Quality Improvements

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$758,000.00** Cost Match: **$142,000.00** Total Project **$900,000.00**

This project will prepare final design and construct "end of pipe" improvements to treat storm drain runoff before it discharges into the tidal zone. The location is Promenade Park Beach, from Surfer's Point to the Ventura Pier. It is Ventura County's most popular site for body contact with ocean water, and is 303(d) listed for bacteria.

346 **City of Rialto**
Rialto Watershed Protection Project

Cooperating Entity 1: **San Bernardino Valley Municipal Water District** Cooperating Entity 2: **Santa Ana Watershed Project**

Grant Requested: **$849,775.00** Cost Match: **$149,955.00** Total Project **$999,700.00**

The Rialto Watershed Protection Project will include a basin analysis to develop a 3-dimensional numerical groundwater flow and solute transport model, age the groundwater in the Rialto-Colton and Rialto watersheds. The goals of this project are to complete basin analysis, identify polution sources and migration, identify measures to treat the poluted groundwater and reclaim it for potable water use, and protect the watershed from the further migration of the pollutant.

348 **Contra Costa County Flood Control & Water Conservation District**
Takin' Out the Trash

Cooperating Entity 1: **Contra Costa County Public Works Department** Cooperating Entity 2: **Delta Diablo Household Hazardous Waste Collection Facility**

Grant Requested: **$1,982,120.00** Cost Match: **$164,600.00** Total Project **$2,146,720.00**

This project is a comprehensive County-wide effort to identify and abate the various sources of illicit dumping of both household hazardous waste (contaminants) and non-hazadous materials (trash) onto stream corridors, vacant lots, roadsides, and the property owners of small business & residents within the Contra Costa County. We propose to establish a multi-agency pilot program in 1-2 designated communities of East County that will develop and implement model preventative infrastructures, an outreach campaign, an illicit dumping exemption program, and model enforcement approaches targetting illicit dumping hotspots. Finally, we propose to expand the capacity of comprehensive resource management planning efforts within the Kellogg Creek watershed.

349 **Contra Costa Flood Control and Conservation District on behalf of the Contra Costa Cleanwater Program**
Contra Costa Cleanwater Program Fertilizer & Water Quality Study

Cooperating Entity 1: **City of Pittsburg Deltaview Golf Course** Cooperating Entity 2: **City of Concord Diablo Creek Golf Course**

Grant Requested: **$312,000.00** Cost Match: **$225,136.00** Total Project **$537,136.00**

This 2-year study will evaluate differences in stream surface water quality adjacent to turf with “traditional” versus “organic-based” fertilizer application scenarios with the goal of identifying best management practices (BMP) that are useful in protecting surface water quality. A secondary objective of the study is to assess the affects, if any, of pesticides that may be leaving golf course sites. Once data are produced and reviewed, an extensive outreach and education program will be used to dissimenate results.

350 **Santa Barbara County Water Agency**
Agua Limpia - Agua Pura Latino Watershed Education and Action Program

Cooperating Entity 1: **University of California Cooperative Extension** Cooperating Entity 2: **Resident Services Housing Authority City of Santa Barbara**

Grant Requested: **$371,484.00** Cost Match: **$71,744.00** Total Project **$401,628.00**

The goal of this project is to develop a model Latino public education and outreach program in Santa Barbara County, which includes community outreach and participation, leadership development, advocacy, and partnership with businesses and community-based organizations. The focus of the education program will be identifying and explaining creek and ocean water quality issues, and providing solutions that can be implemented by the community. It will also include a significant watershed component, to nurture a sense of place and stewardship for the Latino community, as well as educate about restoration and fish habitat issues.

351 **Santa Barbara County Water Agency**
Bioassessment Program for Santa Barbara County Coastal Creeks

Cooperating Entity 1: **City of Santa Barbara** Cooperating Entity 2: **0**
Grant Requested: **$132,500.00** Cost Match: **$61,150.00** Total Project **$193,650.00**

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352 **Battle Creek Watershed Conservancy**
Battle Creek Watershed Stewardship Phase 3

Cooperating Entity 1: **Lassen National Forest (LNF)** Cooperating Entity 2: **Boole Ditch Water Users Association**
Grant Requested: **$1,071,975.00** Cost Match: **$989,000.00** Total Project **$2,060,975.00**

Project consists of four components which lead directly from previous projects and studies. Included in these four components are continued implementation of core elements of the BCWC watershed strategy; reduction of significant sediment sources on LNF; elimination of a chronic sediment souce and acute threat of catastrophic mass wasting associated with an irrigation ditch; and the design and implementation of a stream condition and water quality monitoring program.

353 **Santa Margarita Water District**
Gobernadora Multipurpose Wetlands

Cooperating Entity 1: **Rancho Mission Viejo LLC** Cooperating Entity 2: **0**
Grant Requested: **$1,045,000.00** Cost Match: **$2,500,000.00** Total Project **$3,545,000.00**

Construct a multipurpose basin off-line of Gobernadora Creek, incorporating a storm detention basin established as wetlands, a pump station, and a pipeline. The Project will attentuate storm flows to improve erosion and degradation of the creek and the downstream Gobernadora Ecological Restoration Area; enhance water quality, specifically total coliform, BODs, total solids, ammonia, nitrogen and phosphates utilizing natural vegetated treatment methods instead of chemicals; protection of beneficial uses; improve the watershed; and capture and reuse a valuable local water resource.

354 **County of Orange Public Facilities and Resources Department**
Newport Bay Fecal Coliform Source Identification and Management Plan

Cooperating Entity 1: **University of California Irvine** Cooperating Entity 2: **0**
Grant Requested: **$852,000.00** Cost Match: **$50,000.00** Total Project **$902,000.00**

The proposal will fund activities to determine the extent to which urban and natural sources of fecal coliform contribute to bacterial quality problems throughout Newport Bay and the development plan of a source management plan to address source inputs in a cost-effective and systematic manner.

355 **County of Orange Public Facilities and Resources Department**
Newport Bay Nutrient TMDL Dissolved Oxygen and Algae Distribution Study

Cooperating Entity 1: **Southern California Coastal Water Research Project** Cooperating Entity 2: **0**
Grant Requested: **$266,300.00** Cost Match: **$50,000.00** Total Project **$316,300.00**

The project will conduct two special investigations of the Newport Bay Nutrient TMDL Regional Monitoring Program: 1) conduct a dissolved oxygen study to monitor dissolved oxygen levels throughout the bay on a continuous basis; and 2) . collect remote sensing data of the Newport Bay to document the extent of algae growth throughout the bay. These efforts will explore how macroalgal blooms resulting from nutrient over-enrichment may adversely impact beneficial uses through reduction in water column dissolved oxygen.

356 **Los Angeles and San Gabriel Rivers Watershed Council**
Riparian Weed Management System

Cooperating Entity 1: **Los Angeles County Weed Management Area (WMA)** Cooperating Entity 2: **0**
Grant Requested: **$293,685.00** Cost Match: **$15,000.00** Total Project **$308,685.00**

This project will develop a GIS-based riparian weed management system for use by the WMA to aid in tracking and eradication efforts. This tool will consolidate isolated mapping efforts across the County, identify areas where additional mapping is needed, and provide a comprehensive mechanism to assist in determining priorities on which to focus weed eradication, mitigation, and management efforts.

357 **Shasta County Office of Education**
Clear Creek Field Station

Cooperating Entity 1: **Whiskeytown National Recreation Area/National Park Service** Cooperating Entity 2: **Shasta-Trinity-Tehama Joint Community College District**
Grant Requested: **$1,562,250.00** Cost Match: **$273,000.00** Total Project **$1,835,250.00**

The Clear Creek Field Station project creates a physical location for watershed management information activities to be assessed, developed and implemneted. The project provides for a building to house activities, a mechanism for regional collaboratism, and a catalyst for providing watershed management solutions.

359 **Sierra Forest Communities Institute**
Colfax/Foresthill Watershed Protection and Forest Restoration Project

Cooperating Entity 1: **High Sierra Resource Conservation and Development Council** Cooperating Entity 2: **Sierra Economic Development District**
Grant Requested: **$2,075,000.00** Cost Match: **$405,000.00** Total Project **$2,480,000.00**

The Colfax/Foresthill Watershed Protection and Forest Restoration Project will support the reduction of significant degradation to water resources caused by catastrophic wildfires by facilitating the reduction of fuel loads in six contiguous planning subwatersheds (total, 47,487 acres). This concept proposal is designed to be the implementation phase of our joint submission of concept PIN# 533 for the "Foresthill/Colfax CEQA Grade Watershed Inventory and Analysis" of these six planning watersheds. The principal project tasks are: evaluate fuel loads; develop a fuels treatment plan; conduct CEQA environmental review of proposed treatment projects; initiate treatment of prioritized areas; conduct related restoration work on roads and streams; and evaluate the results.

360 **City of Oxnard**
Wetland Headwater Treatment of Stormwater

Cooperating Entity 1: **California State Coastal Conservancy** Cooperating Entity 2: **0**
Grant Requested: **$452,000.00** Cost Match: **$89,000.00** Total Project **$541,000.00**

Use of pre-wetlands treatment area for urban runoff and other flows in maintaining subsurface water replenishment to an area wetlands. The project will entail use of infiltration as a management practice, with effectiveness evaluated with habitat evaluation coupled with groundwater modeling.

361 **Sierra Nevada Alliance**
Sierra Nevada Watersheds' Capacity Building and Demonstration Projects

Cooperating Entity 1: **Upper Merced Watershed Group** Cooperating Entity 2: **South Yuba River Citizens League**
Grant Requested: **$494,600.00** Cost Match: **$85,550.00** Total Project **$580,150.00**

The Sierra Nevada Alliance proposes to expand on implementation of nonpoint source control measures in impaired Sierra Nevada watersheds through direct organizational, technical, financial and educational assistance to local watershed groups. The project will reduce discharges of sediment, nutrients, pathogens, toxic trace metals, pesticides, and/or heat and enhance beneficial uses of Sierra Nevada water through implementation of a range of restoration projects. This project will: (1) provide technical and organization assistance with implemening 4-6 community demonstration projects; and (2) provide 6 watershed coordinators' training and financial support to build their capacity.

362 **Alpine County**
Alpine County Watershed Restoration and Coordination

Cooperating Entity 1: **Sierra Nevada Alliance** Cooperating Entity 2: **Washoe Tribe of California and Nevada**
Grant Requested: **$490,900.00** Cost Match: **$79,900.00** Total Project **$570,800.00**

Alpine County, in conjunction with the Alpine Watershed Group, Sierra Nevada Alliance, South Tahoe Public Utility District, USDA-NRCS, Washoe Tribe of California and Nevada, US Forest Service, Alpine Resource Conservation District, and Friends of Hope Valley propose to hire and train a watershed coordinator to build the capacity of the Alpine Watershed Group to achieve its watershed restoration plans. In addition, we propose to implement non-point source controls by doing effective on-the-ground restoration projects that improve water quality. Restoration project will improve water quality by restoring eroded and channelized creek and riverbanks, riparian habitat, and instream fish habitat.

363 **Stockton East Water District (SEWD)**
Lower Calaveras River Watershed Management Plan - Phase II - Implementing the Watershed Plan

Cooperating Entity 1: **Calaveras County Water District** Cooperating Entity 2: **0**
Grant Requested: **$1,200,000.00** Cost Match: **$0.00** Total Project **$1,200,000.00**

This project builds upon the substantial watershed planning activities that have already been accomplished in the watershed, and will undertake key assessments that will provide an increased understanding of site-specific threats to water quality and key salmonid habitat resources. The project involves: water quality and habitat monitoring, stakeholder outreach and education, an agricultural water quality improvement program, a flow regime study, and an update of the existing watershed plan. The flow regime study is a significant component of the overall project cost, and will provide the basis for further discussion on improvement of stream conditions for salmonid resources.

364 **City of Encinitas**
Acquisition of 51.71 acres of wetland and upland habitat within the Batiquitos Lagoon watershed.

Cooperating Entity 1: **City of Carlsbad** Cooperating Entity 2: **San Diego Association of**
Grant Requested: **$3,100,000.00** Cost Match: **$0.00** Total Project **$3,100,000.00**

The City of Encinitas is requesting Wetland Protection Program grant funding to be used towards the acquisition of 51.71 acres of riparian and upland habitat within the Batiquitos Lagoon watershed. The site is contiguous to the Batiquitos Lagoon and approximately 1,110 contiguous acres (Batiquitos Lagoon - 610 acres; Upland habitat in Encinitas and Carlsbad - 500 acres).of permanently maintained open space as part of the Cities of Encinitas and Carlsbad MHCP Focused Planning Areas.

366 **University of California Davis Department of Biological & Agricultural Engineering**
Reducing Pesticide Movement from Orchards During Spraying

Cooperating Entity 1: **JMIE UC- Davis** Cooperating Entity 2: **0**
Grant Requested: **$682,694.00** Cost Match: **$0.00** Total Project **$682,694.00**

This project will develop, verify and implement improved mechanical systems for orchard spraying during pesticide application. These improved means will significantly reduce total use and subsequent off-site movement of pesticide from direct spray drift and also rain and irrigation runoff. Existing technology and new, improved designs will be field tested for performance and reduction of pesticides in runoff water. Results will be extended to growers, grower organizations, equipment manufacturers and regulatory agencies.

367 **University of California Davis Department of Biological & Agricultural Engineering**
Site-Specific Real-Time Ag Sprayer Control to Optimize Water Quality Protection

Cooperating Entity 1: **JMIE UC- Davis** Cooperating Entity 2: **0**
Grant Requested: **$587,858.00** Cost Match: **$0.00** Total Project **$587,858.00**

This project will develop, implement and demonstrate a site-specific sprayer control system for field crop spraying. GIS, GPS and weather sensing systems will be combined with spray droplet size and rate control during pesticide application. These improved means will significantly reduce total use and subsequent off-site movement of pesticide from direct spray drift and also rain and irrigation runoff. Results will be extended to growers, grower organizations, equipment manufacturers and regulatory agencies.

368 **Circuit Rider Productions Inc**
Assessment and Restoration of Riparian Corridors in North Coast Streams

Cooperating Entity 1: **Joan Florsheim** Cooperating Entity 2: **Sotoyome and Mendocino Resource Conservation Districts**
Grant Requested: **$809,000.00** Cost Match: **$483,000.00** Total Project **$1,292,000.00**

To preserve and enhance riparian function within the Russian, Gualala and Navarro River watersheds riparian corridor condition, width and structure will be evaluated to provide guidance in targeting areas for protection and restoration. Within the identified areas, landowner outreach, including workshops, publications, a website and demonstration projects, will provide local capacity building and will encourage voluntary measures to improve riparian condition. The project will result in new protected areas and restored riparian habitat, which will have direct beneficial impacts on steam conditions including water quality and temperature.

369 **Loleta Community Services District**
Inflow and infiltration abatement and backup power supply

Cooperating Entity 1: **Wendt Construction** Cooperating Entity 2: **Pacific Pipeline Survey**
Grant Requested: **$893,050.00** Cost Match: **$133,958.00** Total Project **$893,050.00**

We wish to do camera work on our collection system, and repair or replace the mains and laterals that are deemed unsatisfactory. We also wish to purchase a 50KW generator and build a 10 x 15 house for it, since we currently have no way to operate the wastewater facility during power outages.

370 **City of Lodi**
City of Lodi Watershed Educational Outreach Water Quality Monitoring and Pollutant Reduction Program

Cooperating Entity 1: **San Joaquin County Resource Conservation District** Cooperating Entity 2: **See Attachment 2 for further cooperating entities.**
Grant Requested: **$806,000.00** Cost Match: **$283,000.00** Total Project **$1,089,000.00**

A citizen monitoring group will conduct water quality testing the Mokelumne River, Lodi Lake and storm drain discharges for stormwater impacts on the river and lake. Community outreach by Mokelumne River Docents, local schools, and the City of Lodi will educate the public on watershed and stormdrain issues. A study will be undertaken to reduce the storm drain impacts in the impared Lower Mokelumne River for 303d pollutants Copper and Zinc and for future TMDL requirements.

371 **Keep California Beautiful**
Don't Trash California

Cooperating Entity 1: **US Bureau of Land Management** Cooperating Entity 2: **Sunny Garcia**
Grant Requested: **$1,305,000.00** Cost Match: **$0.00** Total Project **$1,305,000.00**

In collaboration with Caltrans' Adopt-A-Highway, the American Chemistry Council, World Champion Surfer Sunny Garcia, the California Coastal Commission, the US Bureau of Land Management, World Champion Skateboard Legend, Tony Hawk, among others, KCB will implement initiatives designed to change behaviors, educate people as to the impact of litter and other pollutants on our waterways and ocean including: the production of a public education kit about litter and pllutants and their impact on waterways and ocean; using the Santa Clara enforcement efforts as a model increase enforcement of existing litter laws; expand KCB's Proud Community Program; establish a statewide Speakers Bureau; conduct community outreach through media outlets, fairs, community events, schools, etc.; mobilize volunteers statewide to conduct community cleanups throughout the state.

372 Contra Costa County Public Works Department
No Longer Lost in the Weeds: Alternatives for Aquatic Pesticides

Cooperating Entity 1: **Alameda County Public Works Department** Cooperating Entity 2: **Aquatic Outreach Institute**

Grant Requested: **$801,000.00** Cost Match: **$199,000.00** Total Project **$1,000,000.00**

Aquatic pesticides are intentionally applied to surfacewater in Alameda and Contra Costa Counties for purposes such as flood and noxious and invasive species control. Alternatives that may be more protective of beneficial uses are not well understood or publicized, and are among the issues addressed in an emergency NPDES permit that expires in January 2004. This project is a comprehensive, 3-year outreach and education program aimed at understanding and disseminating information on cost, effectiveness, risks and benefits of aquatic pesticides and their alternatives so that long-term, sustainable surfacewater quality can be enhanced.

374 Alameda County Water District
Development of a Watershed Management Program for the South Bay Aqueduct System

Cooperating Entity 1: **Alameda County Flood Control & Water Conservation Dist. Zone 7** Cooperating Entity 2: **Santa Clara Valley Water District**

Grant Requested: **$241,000.00** Cost Match: **$90,800.00** Total Project **$331,800.00**

This project will develop a Watershed Management Program for the South Bay Aqueduct (SBA) system. The program will consist of hiring a Watershed Coordinator to facilitate watershed activities, developing a Watershed Workgroup, conducting stormwater monitoring, determining baseline water quality, developing a Watershed Management Plan, and developing and implementing an education program. All of these efforts will be focused on protecting and/or improving recreational, environmental and drinking water quality, and educating the public about watershed management.

375 Bay Area Regional Environmental Business Resource and Assitance Center @ Mission College
Stormwater Pollution Prevention Education and Outreach Program (SPPEOP)

Cooperating Entity 1: **Tetra Tech Inc.** Cooperating Entity 2: **Hossain Kazemi Consultants**

Grant Requested: **$957,680.00** Cost Match: **$142,902.00** Total Project **$982,127.00**

This project will adrress the reduction and prevention of Storm water pollution through regional training, demonstration projects, industry developed best management practices , locally focused refernce manuals and guide books.

376 County of Santa Cruz Department of Public Works
Santa Cruz County Fisheries and Water Quality Implementation Program

Cooperating Entity 1: **Santa Cruz County Resource Conservation District** Cooperating Entity 2: **FishNet 4C**

Grant Requested: **$2,000,000.00** Cost Match: **$1,165,000.00** Total Project **$3,170,000.00**

Santa Cruz County has completed 7 watershed assessment and enhancement plans covering lower Pajaro, Watsonville Sloughs, Aptos, Soquel, San Lorenzo, Arana and Scotts Creek Watersheds in the last two years (see Exhibit #1). All of these Watershed Assessments have identified erosion, sedimentation and fish passage priorities related to public roads as areas of high priority. The Santa Cruz County Public Works Department is requesting implementation funding for 10-12 high priority projects. The Santa Cruz County Resource Conservation District Integerated Watershed Restoration Program (IWRP) request to the Coastal Conservancy to fund 55 of these projects for design and permitting only. All of these projects have been reviewed by DFG and they address water quality related to sedimentation and erosion and fish passage for Public Works projects.

377 University of California Cooperative Extension
Demonstration of Best Management Practices for Water Quality Protection in Dry Bean Production

Cooperating Entity 1: **California Dry Bean Advisory Board** Cooperating Entity 2: **Solano and Yolo County RCD**

Grant Requested: **$250,000.00** Cost Match: **$46,200.00** Total Project **$296,000.00**

Work with 12 dry bean production farms (and associated grower clientele) to demonstrate best management practices to reduce organophosphate and carbamate use for water quality protection.

378 IMPERIAL IRRIGATION DISTRICT
IMPERIAL IRRIGATION DISTRICT NEW AND ALAMO RIVER DRAINSHED WATER QUALITY MONITORING PROGRAM

Cooperating Entity 1: **IMPERIAL COUNTY FARM BUREAU** Cooperating Entity 2: **0**

Grant Requested: **$391,619.00** Cost Match: **$69,110.00** Total Project **$460,729.00**

The Project will supplement IID's own Alamo and New River Drainshed water quality monitoring program. The Project will monitor, collect, and analyze data which will assist IID in becoming more informed as to the efficacy of their compliance effort in reaching the goals set by the Alamo and New Rivers Silt TMDLs; as well as future implications of regulatory compliance, as new TMDLs are set.

379 **County of San Diego Department of Public Works**
Woodside Avenue Low Flow Water Quality Basin and Arrundo Removal

Cooperating Entity 1: **San Diego River Park Foundation** Cooperating Entity 2:**0**
Grant Requested: **$1,275,000.00** Cost Match: **$225,000.00** Total Project **$1,500,000.00**
Design and constuct a water quality control basin on vacant property upstream of Woodside Avenue to treat the low flows and first flush storm runoff. Removal of

380 **County of San Diego**
McClellan-Palomar Airport Conveyance Restoration and Detention Basin Construction

Cooperating Entity 1: **Agua Hedionda Lagoon Foundation** Cooperating Entity 2:**UCSD Supercomputer Center**
Grant Requested: **$1,600,000.00** Cost Match: **$400,000.00** Total Project **$2,000,000.00**
Remove concrete channelization and restore the natural conveyance, creating a detention basin for the capture of dry and wet weather flows from McCellan-Palomar Airport. Plant the conveyance and detention basin with native vegetation. Establish a monitoring plan that monitors for pollutants of concern in the watershed, corresponding the monitoring plan to the vegetation growth in order to determine the effectiveness of the concrete removal and revegetation and develop an outreach program to disseminate use of BMPs in the

381 **Santa Cruz County Environmental Health Service**
North Central Coast Region Lagoon Management

Cooperating Entity 1: **Swanson Hydrology and** Cooperating Entity 2:**California Coastal Conservancy**
Grant Requested: **$276,000.00** Cost Match: **$400,000.00** Total Project **$676,000.00**
This project will provide monitoring and comparative evaluation of coastal lagoons in northern central coast from the Pajaro River to Pescadero Creek. Assessment will include water level, volume, circulation, salinity temperature, dissolved oxygen, nutients, pathogens, and ripairan and aquatic biota including fish populations. Sources and causes of degraded habitat and impaired water quality will be assessed, and managment measures for improving/protecting the health and productivity of lagoons will be specified.

382 **Yuba Watershed Foundation**
Assessing Understanding and Restoring Rock Creek: A Community Effort.

Cooperating Entity 1: **Lake Vera Round Mountain Neighborhood Association** Cooperating Entity 2:**Yuba Watershed Council**
Grant Requested: **$836,003.00** Cost Match: **$10,100.00** Total Project **$846,102.00**
This concept outlines the vision of local landowners in building an understanding, support network, and restoration action plan for remediating the Rock Creek Watershed. Involving all levels of watershed users, from private property owners, to agency stakeholders, to recreational users, this project builds a level of local understanding of social and scientific processes in the watershed. On the ground tasks include formation of the Rock Creek CRMP, an extensive public outreach and education program, and a complete watershed assessment.

383 **Turlock Irrigation District**
Harding Drain Watershed Agricultural and Urban Impacts-Evaluation Education and Outreach

Cooperating Entity 1: **City of Turlock** Cooperating Entity 2:**0**
Grant Requested: **$1,352,000.00** Cost Match: **$120,000.00** Total Project **$1,472,000.00**
This project will provide a detailed assessment of water quality, development of a watershed plan, education and outreach through a Watershed Coordinator, and on-site consultation on Best Management Practices for the Harding Drain Watershed. The detailed assessment will characterize flows, water quality, and pollutant loadings from agricultural and urban sources within the watershed and be used to develop a watershed plan. Water quality improvements will be encouraged through education and outreach efforts, utilizing the information obtained in the study, to educate stakeholders, identify Best Management Practices, and conduct on-farm consultations.

384 **University of California**
Development and Implemetation of Ricefield Management Practices to Improve Water Quality

Cooperating Entity 1: **California Rice Commission** Cooperating Entity 2:**UC Integrated Pest Management Program**
Grant Requested: **$1,159,000.00** Cost Match: **$90,000.00** Total Project **$1,249,000.00**
Rice farming is a major enterprise supporting the livelihoods of rural communities in the Sacramento Valley. The productivity of rice is dependent on flooding for much of the season. Recent changes in cultural practices including straw, pest and irrigation management all have potential impacts on the quality of downstream waters for TOC, turbidity, pesticides and nutrients. We propose to develop and implement management practices to mitigate the impact of ricefield tailwater to protect drinking water quality.

385 **County of Marin**
Lagunitas Creek Watershed Sediment Reduction and Enhancement Project

Cooperating Entity 1: **Marin County Parks and Open Space** Cooperating Entity 2: **Marin Municipal Water District**
Grant Requested: **$601,650.00** Cost Match: **$110,950.00** Total Project **$739,600.00**

The Lagunitas Creek Sediment Reduction and Watershed Enhancement Project has been designed, as a collaborative effort, to conduct the following activities:1) Produce a comprehensive GIS database of unpaved roads to assist with roads assessment and prioritization for future road repairs and maintenance activities; 2) Reduce the input of fine sediment from unpaved roads by implementing recommendations of roads assessment; 3) Restore fish passage and stream morphology at county road crossings pursuant to 2002 assessment priorities; 4) Establish BMP training for county and open space maintenance crews; 5) Work with local watershed groups to enhance community outreach.

386 **City of San Bernardino Municipal Water Department**
Enhanced Reliability Schedule of Improvements - Ogden Reservoir

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$4,913,000.00** Cost Match: **$5,152,920.00** Total Project **$10,065,920.00**

The Ogden Reservoir, a 12-million gallon, pre-stressed concrete reservoir, is part of a phased series of infrastructure enhancements to manage our groundwater basin. During drought conditions parts of our basin at higher elevations are not able to produce the water need to meet the local demand while the larger balance of the basin at lower elevations has a sufficient and sustainable supply. The reservoir will provide additional storage capacity to add water pressure that will help move water from wells in lower elevations with reliable water supplies to drought-affected service areas in higher elevations and to improve service to low-income neighborhoods, freeing us from needing State Project Water.

387 **California GreenWorks Inc.**
East Compton Watershed Education and Water Quality Monitoring Project

Cooperating Entity 1: **Compton Community College** Cooperating Entity 2: **Compton Unified School District**
Grant Requested: **$969,500.00** Cost Match: **$0.00** Total Project **$969,500.00**

The proposed project is the first to focus on environmental justice in relation to water quality improvement in the Los Angeles Region. It will provide environmental information that is understandable and accessible to all affected communities to help individuals understand their role in improving water quality. The program activities are designed to promote increased public participation and involvement in watershed management, and it has a high potential for statewide application in low-income and communities of color.

389 **San Diego State University Foundation**
Construction of an outdoor Soil Erosion Research Field Facility (SERFF)

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$200,000.00** Cost Match: **$0.00** Total Project **$200,000.00**

The Department of Civil and Environmental Engineering at Dan Diego State University proposes the construction of an outdoor Soil Erosion Research Field Facility (SERFF). The SERFF will complement the on-going research and educational activities of SDSU's on-campus indoor Soil Erosion Research Laboratory (SERL).

390 **County of Ventura**
El Rio Sewer System Project (II)

Cooperating Entity 1: **LAFCO** Cooperating Entity 2: **City of Oxnard**
Grant Requested: **$2,500,000.00** Cost Match: **$0.00** Total Project **$2,500,000.00**

The project is a continuation of phased construction of El Rio Sewer System Project that was approved under the 2002 Watershed Protection Program (WPP) grants to replace the existing septic tank systems in the community of El Rio with a conventional sewer system connected to the City of Oxnard sewer system for treatment and disposal.

391 **City of San Clemente**
SEGUNDA DESHECHA (M02) URBAN RUNOFF TREATMENT FACILITY

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$350,000.00** Cost Match: **$400,000.00** Total Project **$750,000.00**

The proposed project is to install a dry weather urban runoff treatment unit adjacent to the existing Segunda Deshecha (M02) concrete box flood control channel. Dry season flow of about 500,000 gallons per day would be diverted through an offline chamber where runoff would be filtered to remove solids and floatables, then pass through a disinfection process to remove bacteria, and then be returned to the channel just upstream of the existing channel ocean outlet location.

392 **California Dried Plum Board**
Reducing Diazinon and Pyrethroid Runoff from Orchards: Accelerating the Implementatin and Evaluation of IPM and BMP Methods

Cooperating Entity 1: **University of California** Cooperating Entity 2: **0**
Grant Requested: **$1,885,300.00** Cost Match: **$262,000.00** Total Project **$2,147,300.00**

As a collaborative effort between the California Dried Plum Board and the University of California, this project will continue and expand current efforts in developing and evaluating IPM and BMP practices and promoting the widespread implementation of practices having the greatest potential for reducing pesticide runoff. The focus of this work will be on mitigating the risk of two broad-spectrum pesticides commonly used as dormant season sprays in orchard agriculture, the OP pesticide diazinon and the pyrethroid pesticide esfenvalerate, from entering aquatic ecosystems at concentrations toxic to aquatic life.

393 **Panoche Drainage District**
Demonstration of Zero-Discharge On-Farm Agricultural Drainage Recycling Process in the Grassland Drainage

Cooperating Entity 1: **WaterTech Partners (private R&D firm)** Cooperating Entity 2: **Summers Engineering (district**
Grant Requested: **$2,131,210.00** Cost Match: **$0.00** Total Project **$2,131,210.00**

This project involves the full-scale field demonstration of a novel membrane process that can economically reclaim over 90% of the water content of agricultural drainage as high quality irrigation water. The 10% brine stream will be desiccated in an environmentally safe maner in an adjacent solar evaporator. This integrated on-farm drainage management (IFDM) project will demonstrate the technical and economic fesibility of achieving "zero discharge" on a 1,100 acre project site in the Panoche Drainage District and will serve as the prototype for similar IFDM facilites throughout the Grassland Drainage Area. By eliminating GDA drainage flows, this network of small on-farm IFDM plants will facilitate achievement of water quality objectives and TMDL's for selenium, boron and salt in Grassland watershed and San Joaquin River in accordance with the Basin Plan and the CALFED Watershed Program.

394 **Ventura County Watershed Protection District**
Calleguas Creek Watershed NPS Pollution Control Evaluation Project

Cooperating Entity 1: **Community Conservancy International** Cooperating Entity 2: **Southern California Coastal Water Research Project**
Grant Requested: **$1,195,000.00** Cost Match: **$348,000.00** Total Project **$1,543,000.00**

This project will assist the Calleguas Creek Watershed stakeholders in controlling non-point source pollution and in developing an implementation plan to meet TMDL allocations. The project will integrate water quality, land use, soils, sedimentation, hydrologic and biota data for the Calleguas Creek Watershed into a comprehensive model in order to evaluate specific management actions and solutions to serious non-point source water quality problems throughout the watershed, and to develop an effective implementation plan for the TMDLs being established for the 30 pollutants of concern listed on the Federal Clean Water Act Section 303(d) list for the Calleguas Creek Watershed.

395 **University of California Cooperative Extension Contact: Marsha Campbell Mathews**
Minimizing Environmental Pollution by Dairy Manure Application with an Integrated Land Application and Wetland System Approach

Cooperating Entity 1: **East Stanislaus Resource Conservation District** Cooperating Entity 2: **University of California at Davis**
Grant Requested: **$4,903,640.00** Cost Match: **$206,976.00** Total Project **$5,110,616.00**

This project will investigate and demonstrate an integrated approach of land application, denitrification treatment wetlands and desalination to reduce nitrate and salt loading to groundwater from dairy operations. Laboratory and field studies will be used to optimize land application rates through developing realistic nitrogen mineralization rates. Desalination using sustainable energy and denitrification treatment wetlands will be developed for this application and demonstrated. An economic analyis will determine costs and benefits to dairy operators and the local communities.

396 **Dr. Brian A. Bergamaschi U.S. Geological Survey**
Short title: Management of DOC DBPP and nutrients loads from major agricultural land uses and development

Cooperating Entity 1: **Yolo County Resource Conservation District** Cooperating Entity 2: **University of California Davis**
Grant Requested: **$4,500,000.00** Cost Match: **$1,000,000.00** Total Project **$5,500,000.00**

The goal of this proposed study is to identify and quantify the biogeochemical and hydrological processes contributing to the release of dissolved organic carbon (DOC) by agriculture and other land uses into Central Valley (CV) Rivers, as well as to explore possible strategies to mitigate DOC release. DOC is a drinking water quality concern because of potential adverse health effects associated with DBPs (THMs, HAAs, etc.) that form when disinfectants react with DOC. We hypothesize that release of nitrate and sediment from agricultural systems (also CALFED and CV Regional Board concerns) are intimately linked to DOC release . Thus, we propose a joint investigation of DOC and nitrate release, transport, and mitigation. The results of these investigations will permit accurate land-use-based modeling of DOC release, and enable managers to better mitigate DOC and nutrients at the source.

397 Coyote Valley Band of Pomo Indians

Coyote Valley Band of Pomo Indians Forsythe Creek and West Fork Russian River Restoration II

Cooperating Entity 1: **E Center's Mendocino Fisheries** Cooperating Entity 2:**0**

Grant Requested: **$325,378.00** Cost Match: **$68,150.00** Total Project **$393,728.00**

We propose to decrease sediment input to Forsythe Creek by laying back several hundred feet of vertical bank to a ratio of 3:1 using the "Streamway Concept". We also propose to adress items 4,5,6 and 7 of the DFG Forsythe Creek Stream Inventory Report Summary (May '03) Priority Fishery Enhancement Opportunities. Specifically; re-establishment of floodplain benches, increase of canopy by 30%, establishment of riparian buffer zones to protect from runoff, increase cover and enhance pools.

398 Laguna Niguel Community Services District

THE SULPHUR SOLUTION: PREVENT CONTROL RESTORE

Cooperating Entity 1: **County of Orange** Cooperating Entity 2:**0**

Grant Requested: **$3,010,179.00** Cost Match: **$1,470,022.00** Total Project **$4,590,201.00**

The Sulphur Creek Solution will implement a threefold program: 1) preventing NPS pollution by converting high-maintenance turfgrass areas into low-maintenance landscapes; 2) controlling the entry of NPS pollutants into the MS4 by retrofitting catch basins with screens and filters; and 3) restoring beneficial uses and natural stream functions downstream of the MS4 by converting an engineered flood channel into viable wetland habitat. The project brings together multiple stakeholders to target the Sulphur Creek subwatershed of 303(d)-listed Aliso Creek.

399 Southern California Coastal Water Research Project

Assessment of Effectiveness of Treatment Wetlands for Stormwater BMPs and Compatibility with Wildlife Beneficial Uses

Cooperating Entity 1: **Southern California Wetland Recovery Project** Cooperating Entity 2:**State Coastal Conservancy**

Grant Requested: **$680,000.00** Cost Match: **$180,000.00** Total Project **$860,000.00**

The California Nonpoint Source (NPS) Plan calls for protecting and restoring wetlands and riparian areas and using vegetated treatment systems as a means to control NPS pollution, but also specifically states that wetlands and riparian areas should be protected from any adverse effects if they are harnessed to treat NPS pollution. This project will begin to address the questions of the effectiveness of wetlands for urban runoff BMPs and compatibility with wildlife beneficial uses in Southern California and help to refine guidelines that will guide treatment wetland implementation and monitoring.

400 USDA Forest Service Stanislaus National Forest Calaveras Ranger District

McKays Hazard Fuels Reduction

Cooperating Entity 1: **0** Cooperating Entity 2:**0**

Grant Requested: **$300,300.00** Cost Match: **$88,300.00** Total Project **$300,300.00**

Unmerchantable vegetative material, some killed by the Darby Fire of 2001 and some living, would be removed as biomass in order to remove fuel ladders and reduce crown density. Following the biomass operation, the area would be prescribed burned. Approximately 478 acres would be treated.

401 The Redlands Institute University of Redlands

Santa Ana Watershed Atlas and Web-based Tools

Cooperating Entity 1: **Santa Ana Watershed Project Authority (SAWPA)** Cooperating Entity 2:**Water Resource Institute (WRI)**

Grant Requested: **$995,000.00** Cost Match: **$995,000.00** Total Project **$1,990,000.00**

This project will produce an integrated suite of geospatial products through the extensive involvement of local stakeholders in an iterative consensus-building exercise to identify and prioritize key watershed issues. Anticipated products will include map books, public outreach materials, a planners' guidebook, a watershed Atlas, spatio-temporal datasets, and a range of GIS applications; the process described will also improve understanding of issues and coordination between agencies and organizations. This leading-edge, pilot program will collate and develop important datasets, and produce innovative tools for the sustainable management of Santa Ana Watershed's water supply.

402 Lawrence Hall of Science University of California Berkeley

Nonpoint Source Pollution and Pesticide Reduction and Research

Cooperating Entity 1: **Marin County Dept. of Agriculture** Cooperating Entity 2:**Hayward Area Recreation and Park District**

Grant Requested: **$2,996,901.00** Cost Match: **$0.00** Total Project **$2,996,901.00**

A comprehensive NPSP reduction program will be tested and evaluated in the low-income communities along the Sulphur Creek watershed in Hayward, Alameda County. The model program will also be implemented in Marin and in communities along Putah Creek in Solano and Yolo Counties. A pre- and post-behavioral research study will be paired with stream and habitat monitoring research led by UCB ESPM and Garcia and Associates.

404 **City of Newport Beach**
Newport Coast Watershed Program: Assessment Management and Restoration

Cooperating Entity 1: **Irvine Company** Cooperating Entity 2:**County of Orange**
Grant Requested: **$1,100,000.00** Cost Match: **$180,000.00** Total Project **$1,280,000.00**

The program objectives are to complete watershed assessments (survey, hydrologic/hydraulic, biological/ecological, water quality and sedimentation), prepare specific restoration recommendations under a watershed management plan, implement specific stabilization and restoration projects within the framework of the watershed management plan and plan for subsequent watershed restoration projects. An essential component of the wateshed management plan is providing recommendations for an evolving and refined watershed maintenance program that intimately involves the community.

405 **City of Los Angeles/Department of Public Works/Bureau of Sanitation/Watershed Protection Division**
Ballona Creek Treatment Facility

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$800,000.00** Cost Match: **$200,000.00** Total Project **$1,000,000.00**

This is a pilot project to determine the effectiveness of bacteria removal from urban runoff using an antibacterial processing unit that utilizes the UV disinfection method. This project will be located in the Ballona Creek Treatment Facility. This project will assist with the City's compliance with the Dry Weather Bacteria TMDL.

406 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Hydrocarbon Removal Polymer Inserts

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$212,000.00** Cost Match: **$78,500.00** Total Project **$361,500.00**

This project will focus on treating oil and grease from automotives shops located in the Los Angeles River and Ballona Creek Watersheds, by installing approximately 75 catch basin inserts with polymer in existing catch basins and providing monitoring, sampling and analysis.

407 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protection Division**
Marquez Low Flow Diversion Facility

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$510,000.00** Cost Match: **$90,000.00** Total Project **$600,000.00**

This project will construct a low flow diversion facility to intercept dry weather runoff throughout the year from the Marquez storm drain and divert it to a sanitary sewer for treatment at a receiving wastewater treatment plant. The facility will operate year round by diverting flow during the dry weather season as well as dry weather flow during the wet weather season. During the wet season, the diverted flow will be trashed for trash and debris and returned to the storm drain via a by-pass return line.

408 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Los Angeles River Stormwater Trash Capture System

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,440,000.00** Cost Match: **$360,000.00** Total Project **$1,800,000.00**

This project will construct end-of pipe full-capture systems on three (3) City strom drain outlets. These full capture systems will prevent trash and other pollutants from entering the Los Angeles River. The project will target large areas within the City of Los Angeles with higher polluted flows. The project cost includes design and construction. This is required to comply with the Trash TMDL.

409 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Ballona Creek Stormwater Trash Capture System

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,440,000.00** Cost Match: **$144,000.00** Total Project **$1,669,500.00**

This project will construct end-of-pipe full-capture systems on 3 City storm drain outlets. These full capture systems will prevent trash and other pollutants from entering Ballona Creek.

410 **City of Los Angeles Dept. of Public Works Bureau of Sanitation Watershed Protection Division**
Catch Basin and End-of-Line Trash Capture System

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$848,000.00** Cost Match: **$212,000.00** Total Project **$1,060,000.00**

This project will retrofit approximately 200 catch basins by installing filter inserts and opening screen covers to trap trash before entering the storm drains. In addition, this project will install 5 trash capture basket systems on storm drain outlets that flow directly into the Los Angeles River and Ballona Creek.

411 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
South Los Angeles Wetlamds Park

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$4,000,000.00** Cost Match: **$1,000,000.00** Total Project **$5,000,000.00**

This project calls for the development of detention ponds and constructed wetlands in the South-Central area of the City. Neighborhood storm drains will be modified to allow the dry weather flow and aportion of the wet weather flow to be diverted into a 1 million gallon underground storage tank. Another component of this project is to develope a wetlands habitat educational center in Augustus B. Hawkins nature park.

412 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Sun Valley Recharcge and Reuse Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,050,000.00** Cost Match: **$480,000.00** Total Project **$1,530,000.00**

The project will develop a stormwater capture and treatment wetlands in the upper Sun Valley Watershed. The wetlands will reduce nonpoint source pollution in urban runoff and would provide habitat, water treatment, education and athestics.

413 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Zanja Madre Wetland Park

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$4,000,000.00** Cost Match: **$1,000,000.00** Total Project **$5,000,000.00**

The project will create a constructed wetland by diverting the Los Angeles River along the orginal Zanja Madre route that once bropught water to the Pueblo De Los Angeles. The Zanja Madre Wetland park will provide habitat for birds as well as recreation for residents in this highly urbanized area. This will assist with the City's compliance with dry weather bacteria TMDL and the Stormwater NPDES Permit.

414 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Urban Lakes Restoration Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$2,264,000.00** Cost Match: **$566,000.00** Total Project **$2,830,000.00**

This project will assess and restore three (3) lakes in the City that are impaired by urban and stormwater runoff. This project will prepare a Lake Restoration and Management Plan with it associated implement cost. The urbam rinoff pollution abatement and water quality improvements include in-lake treatment, source control efforts, floatinf wetlands, algea control, areation, biofilters, and structural controls that will capture trash and sediment.

415 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Echo Park Lake Restoration Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$595,000.00** Cost Match: **$105,000.00** Total Project **$700,000.00**

This project will clean up the pollution in Echo Park Lake and will reduce nonpoint source pollution in urban runoff that enters the lake. The urban runoff pollution abatement and water quality improvements include in-lake treatement, source control efforts, floating wetlands, algea control, areation, biofilters, planting, lake administrative improvements, and structural controls that will capture trash and

416 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Dixie Canyon Urban Runoff Pollution Removal Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,680,000.00** Cost Match: **$419,000.00** Total Project **$2,099,000.00**

The Dixie Canyon Stormwater Mitigation Project will divert dry and wet weather runoff from a local park to a downstream storm drain. Diverted flow will reduce flooding downstream and also be treated by passing trough a antimicrbial filter located inside the catch basin before being discharged through the local stormdrains.

417 **City of Los Angeles/Department of Public Works/Bureau of Sanitation/Watershed Protection Division**
Overland Urban Runoff Treatment and Reuse Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$212,500.00** Cost Match: **$37,500.00** Total Project **$250,000.00**

This project will address water escaping from a culvert in the curb that travels north on Overland to Clarkson and west on Clarkson to Selby where it collects and damaging the street. The proposed project calls for the construction of porous concrete pavement at the intersection of Clarkson and Selby located in the City of Los Angeles. The proposed Best Management Practice (BMP) will allow water to percolate through the ground and filter out bacteria, oil and grease, sediments, and heavy metals. Also, this project will assist with the City's compliance with the Wet and Dry Weather Bacteria.

418 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Wonderland Urban Runoff Pollution Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$212,500.00** Cost Match: **$37,500.00** Total Project **$250,000.00**

The Water on Wonderland Project will divert udergrround runoff that habitually creeps through the asphalt causing a slippery dangerous road to nearby stormdrains. Using stormwater technology, the project will install adequate draiange uder the roadway to prevent groundwater from penetrating trought the road.

419 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protection Division**
Machado Lake Restoration Project

Cooperating Entity 1: **Los Angeles County Department of Public Works** Cooperating Entity 2:**0**
Grant Requested: **$2,400,000.00** Cost Match: **$600,000.00** Total Project **$3,000,000.00**

This project proposes to install Best Management Practices (BMPs) to remove trash, sediments, and suspended solides in urban and stormwater runoff before they are discharged into the Machado Lake . The BMPs will be installed in the Vermont Ave. and 259th St. Storm Drain System which discharges 40% of the urban and storm water runoff in the lake. In addition, this project will identify and remove exotic plant species,create appropriate native ecosystem plant pallets that filter, remediate and ensure better water quality resources. The project includes exotics removal, native planting and irrigation design, implementation and establishment. This will improve the water quality of the Machado Lake and restore the beneficial uses of the lake such as wetland inhabitation of aquatic and plant life, bird life habitat, and recreational activities such as boating and fishing.

420 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protection Division**
White Point Park Stream Restoration Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,500,000.00** Cost Match: **$300,000.00** Total Project **$1,800,000.00**

This project will restore part of White Point Park by reestablishing original contours and planting native vegetations. In addition, a wetland will be constructed within the park to treat urban runoff pollution from the surrounding drainage areas, and to provide a freshwater wetland habitat for wetland habitat associated wildlife species.

421 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Aqua Linda Wetland Park

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$2,400,000.00** Cost Match: **$600,000.00** Total Project **$3,000,000.00**

The Aqua Linda Wetland Park will be an 11 - acre park that will treat water naturally before it outlets into the Los Angeles River. The park will provide habitat for birds as well as recreation for residents in this highly urbanized area.

422 **CITY OF ESCONDIDO PUBLIC WORKS DEPARTMENT UTILITIES DIVISION**
KIT CARSON CREEK WATERSHED PROJECT

Cooperating Entity 1: **CURRENTLY DEVELOPING CONTACTS** Cooperating Entity 2:**0**
Grant Requested: **$740,800.00** Cost Match: **$0.00** Total Project **$740,800.00**

THE KIT CARSON CREEK WATERSHED PROJECT CONSISTS OF FIVE INTEGRATED TASKS WITH THE UNIFIED GOAL OF PROVIDING A LASTING SOLUTION TO WATER QUALITY CONCERNS IN KIT CARSON CREEK, A 303(d)-LISTED IMPAIRED WATERBODY IN NORTH COUNTY, SAN DIEGO. THE COMPONENTS INCLUDE TMDL DEVELOPMENT FOR TDS FOR KIT CARSON CREEK, DEVELOPMENT AND IMPLEMENTATION OF A COMPREHENSIVE RESTORATION PLAN FOR KIT CARSON CREEK, DEVELOPMENT AND IMPLEMENTATION OF AN EXOTIC PLANT REMOVAL PLAN FOR THE WATERSHED, AND DEVELOPMENT AND IMPLEMENTATION OF A PUBLIC EDUCATION PLAN BASED IN THE WATERSHED.

423 **CITY OF ESCONDIDO PUBLIC WORKS DEPARTMENT**
REIDY CANYON WATERSHED PROTECTION PROJECT

Cooperating Entity 1: **CURRENTLY DEVELOPING CONTACTS** Cooperating Entity 2:**0**
Grant Requested: **$486,100.00** Cost Match: **$0.00** Total Project **$486,100.00**

THE REIDY CANYON WATERSHED PROTECTION PROJECT CONSISTS OF FIVE INTEGRATED TASKS WITH THE UNIFIED GOAL OF PROVIDING A LASTING SOLUTION TO FLOODING AND WATER QUALITY CONCERNS IN REIDY CANYON IN NORTH COUNTY, SAN DIEGO. THE COMPONENTS OF THE PROJECT INCLUDE CREATING A VEGETATED HIGH WATER FLOW CHANNEL IN AN AREA PRONE TO SEASONAL FLOODING, DEVELOPMENT AND IMPLEMENTATION OF A RESTORATION PLAN FOR THE UPPER REACHES OF REIDY CREEK, DEVELOPMENT AND IMPLEMENTATION OF AN EXOTIC PLANT REMOVAL PLAN FOR THE WATERSHED, AND DEVELOPMENT AND IMPLEMENTATION OF A PUBLIC EDUCATION PLAN BASED IN THE WATERSHED.

424 San Francisco Bay Joint Venture (Point Reyes Bird Observatory (fiscal sponsor))
Urban Watershed Partnership -- Bay Area Watershed Network and Restoration Action Program

Cooperating Entity 1: **Urban Creeks Council** Cooperating Entity 2: **Aquatic Outreach Institute**

Grant Requested: **$915,000.00** Cost Match: **$213,500.00** Total Project **$1,088,500.00**

The ultimate goal of this project is to develop the capacity of and assistance for local watershed restoration stakeholders through a regional partnership that will facilitate coordination, distribute grant funding equitably, and provide technical assistance for projects in key watersheds around the Bay and in the nine Bay Area counties. It is important to the members of this partnership to encourage effective means of restoring water quality and sustaining these efforts through a long-term collaborative program aimed at connecting local communities, watershed stakeholders, and agency representatives.

425 Los Angeles County Department of Parks and Recreation
Mission Creek Restoration Project (MCRP)

Cooperating Entity 1: **L.A. County Dept. of Parks and Recreation** Cooperating Entity 2: **U.S. Army Corps of Engineers**

Grant Requested: **$260,000.00** Cost Match: **$40,000.00** Total Project **$300,000.00**

The Los Angeles County Department of Parks and Recreation in partnership with the L.A. Conservation Corps and US Army Corps of Engs. would undertake a restoration of Mission Creek. This would be accomplished by removing an accumulation of trash, streambank stabilization, native plant restoration and implementation of BMP's to alleviate trash entry from Legg Lake, an impaired water body. At Risk Youth would be involved in learning about BMP's and implementing techniques in urban stream restoration, NPDES, SUSMP, and goals of local conservancies.

426 Alameda County Resource Conservation District
Alameda County Watersheds Enhancement Project

Cooperating Entity 1: **Alameda County Flood Control and Water Conservation District** Cooperating Entity 2: **USDA Natural Resources Conservation Service**

Grant Requested: **$3,151,000.00** Cost Match: **$644,000.00** Total Project **$3,307,000.00**

The proposed projects will provide implementation of conservation measures in the upper watersheds of Alameda and San Lorenzo Creeks, primarily to enhance fish and other wildlife habitat and to accomplish stream channel stabilization, vegetation restoration and nonpoint source pollution reduction . A Watershed Council will be formed for each watershed to set priorities and identify opportunities for conservation projects and demonstration sites. Grant funds will be provided to fund a portion of the cost of the practices to be implemented along stream channels, on rangeland, vineyard, and at equestrian facilities.

427 Santa Fe Irrigation District
Lake Hodges Watershed Water Quality Improvement Plan

Cooperating Entity 1: **San Diegito Water District** Cooperating Entity 2: **0**

Grant Requested: **$2,080,000.00** Cost Match: **$312,000.00** Total Project **$2,392,000.00**

This Project proposes a multi-pronged approach to the development/implementation of an effective watershed program for Lake Hodges, namely: (1) Implement a comprehensive monitoring program to gather the necessary information to both identify contamination sources and quantify relative loads contributed for key contaminants; (2) Evaluate means for complying with water quality standards by drinking water systems using Lake Hodges water; (3) Evaluate alternative BMPs that could be implemented at select locations; (4) Implement selected BMPs to gage potential effectiveness in improving overall water quality; (5) Prioritize actions for full-scale watershed protection and restoration; (6) Build consensus and develop an action plan with stakeholders among the watershed's communities, governmental agencies, and municipalities.

428 Tuolumne River Trust
Floodway Expansion and Greenbelt Protection Lower Tuolumne River

Cooperating Entity 1: **Tuolumne River Technical Advisory Committee** Cooperating Entity 2: **Tuolumne River Coalition**

Grant Requested: **$5,000,000.00** Cost Match: **$50,000.00** Total Project **$5,050,000.00**

The purpose of this project is to expand the floodway, protect greenbelts, and restore habitat for terrestrial and aquatic species along the Tuolumne River near Modesto, California. This project will acquire fee title or easements on land along the Tuolumne River near Modesto as part of a broader floodway expansion project, in accordance with the locally developed watershed plan (Restoration Plan) and in coordination with local watershed groups and partners. Subsequent to purchase, we intend to restore riparian habitat and wetlands on the property, add trails, and transfer the title to a public agency.

429 **Ocean Institute**
One-Tier Back Watershed Education Program

Cooperating Entity 1: **County of Orange/PFRD/Watershed & Coastal Resources** Cooperating Entity 2: **0**

Grant Requested: **$104,650.00** Cost Match: **$0.00** Total Project **$104,650.00**

This integrated discipline, standards-based program is designed to bring 5th grade students from communities that are not adjacent to the beach to the Ocean Institute to explore the environmental impact of their behaviors. Students learn how important the ocean is in their daily lives and how their actions impact the ocean in either positive or negative ways. The goal of the program is to train students in the self-management of their own watersheds and to provide them with the tools to effect change at their schools and in their communities.

430 **City of Aliso Viejo**
Wood Canyon Creek Water Quality / Catch Basin Inserts (J02TBN1)

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$59,075.00** Cost Match: **$0.00** Total Project **$69,500.00**

Target the catch basins that flow to the J02TBN1 storm drain. Install catch basin inserts that will keep out gross debris and filter out finer debris and bacteria.

431 **Friends of the SF Estuary**
Watershed Assessment Resource Center Community Watershed Program (WARCCWP)

Cooperating Entity 1: **#REF!** Cooperating Entity 2: **San Francisco Estuary Project**

Grant Requested: **$1,240,000.00** Cost Match: **$344,000.00** Total Project **$1,584,000.00**

The WARCCWP addresses the objectives of CalFed to increase the reliability of water supply and to increase and sustain both water quality and ecosystem quality. The WARC Implementation Plan clearly demonstrates how watershed assessment and monitoring coupled with community-based groups and local agencies provides the most effective avenue for implementing these CalFed objectives. For example, community-led riparian or fisheries restoration projects implemented outside of an overall understanding of the conditions and processes in a watershed have very high failure rates. Increasing and sustaining water quality and ecosystem quality requires that community-based efforts be infused with a scientific approach.

433 **Los Angeles County Department of Public Works**
Catch Basin Pollutant Excluders

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$1,300,000.00** Cost Match: **$1,300,000.00** Total Project **$2,600,000.00**

The project involves installing up to 1500 debris excluders in the existing catch basins to capture pollutants. The purpose of the project is to improve storm water quality. These catch basins are located within the unincorporated area of Los Angeles County, within the Los Angeles River Watershed.

435 **LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS**
MORRIS DAM - MAIN SAN GABRIEL BASIN: WATER SUPPLY ENHANCEMENT

Cooperating Entity 1: **MAIN SAN GABRIEL BASIN WATERMASTER** Cooperating Entity 2: **SAN GABRIEL VALLEY PROTECTIVE ASSOCIATION**

Grant Requested: **$5,000,000.00** Cost Match: **$8,700,000.00** Total Project **$13,700,000.00**

The project would result in increased local water supply for groundwater recharge and water extraction by the local water purveyors who serve the San Gabriel Valley Region resulting in a reduced demand for imported water sources. To accomplish this, Public Works proposes to implement modifications to Morris Dam that will increase the water storage capacity by 34% in the reservoir and ensure continued operational reliability of the dam's river outlets.

436 **Los Angeles County Department of Public Works**
Spreading Grounds Telemetry System

Cooperating Entity 1: **None** Cooperating Entity 2: **0**

Grant Requested: **$1,360,000.00** Cost Match: **$340,000.00** Total Project **$1,700,000.00**

The Spreading Grounds Telemetry Project will equip storm operated spreading grounds with control systems and telemetry to allow remote monitoring and operation of gages and control structures. Basin depth, spreading grounds inflow, channel flows, and gate openings will be monitored remotely. Remote control of interbasin control structures, headworks diversions and intake gates will be established.

437 **Regents of the University of California (Berkeley campus)**
Enhancing the value of pesticide monitoring data for watershed management

Cooperating Entity 1: **Dept. of Pesticide Regulation Kean Goh (kgoh@cdpr.ca.gov)** Cooperating Entity 2: **(cooperating entities continued)**

Grant Requested: **$790,000.00** Cost Match: **$0.00** Total Project **$790,000.00**

Given the high level of interest in environmental effects of pyrethroid pesticides and emergence of analytical capabilities in several regional laboratories, in the next 1-2 years pyrethroid analysis is likely to become as commonplace as organophosphate monitoring is today. However, regulatory bodies and watershed groups which heavily rely upon these monitoring data are currently unable to adequately interpret monitoring results becuase of the absence of toxciological data as to what concentrations of pyrethroids pose an ecological threat. This study will provide information on fundamental issues of pyrethroid toxicology so that harmful levels can be identified as such and the technical foundation for management measures strengthened.

438 **Southwest Wetlands Interpretive Association**
Tijuana River Valley Invasive Plant Control Program

Cooperating Entity 1: **please see attached details for these cooperating entities:** Cooperating Entity 2: **San Diego County Parks and Recreation; and**

Grant Requested: **$3,146,400.00** Cost Match: **$10,800.00** Total Project **$3,157,200.00**

Implementation of a plan to control invasive, non-native, plant species in the riparian and estuarine habitats of the Tijuana River Valley.

439 **County of San Diego**
Negocio Verde

Cooperating Entity 1: **Barrio Logan EJ Dem.Project P2 and Compliance Assist.Task Force** Cooperating Entity 2: **Project Clean Water SD&Imp.Coun.P2 Comm.SD Area GB Prog**

Grant Requested: **$376,425.00** Cost Match: **$79,700.00** Total Project **$456,125.00**

Negocio Verde is an Environmental Justice Green Business Demonstration Project. This project pulls together academia, the community and businesses into a "Negocio Verde Es Negocio De Todo El Mundo" - Green Business is Everyone's Business. Promoting, educating and implementing Best Management Practices for school children, the community and businesses in key Environmental Justice communities near the mouth of 303d impaired Chollas Creek in San Diego, to ensure long term commitments to water quality and environmental stewardship.

441 **County of San Diego Department of General Services**
Porous Pavement and Model Municipal Operations Center Demonstration Project

Cooperating Entity 1: **San Diego River Park Foundation** Cooperating Entity 2: **0**

Grant Requested: **$1,827,840.00** Cost Match: **$461,460.00** Total Project **$2,307,300.00**

The Department of General Services proposes a project that will demonstrate how municipalities can provide leadership in improving water quality by implementing changes at existing facilities and improving the design and construction of future facilities. The project is designed to assess and demonstrate the use of enhanced source control and treatment control best management practices (BMPs) at specified County facilities, and to assess the use of four different types of porous paving materials. It will illustrate to municipalities and the development and design communities the potential for using porous paving to reduce urban runoff and limit modification of stream hydrology in future new development and significant redevelopment projects.

444 **County of San Diego Department of Public Works**
Nutrient Reduction and TDS Management Plan for Santa Margarita Watershed

Cooperating Entity 1: **County of San Diego Agricultural Weights and Measures** Cooperating Entity 2: **Mission Resource Conservation**

Grant Requested: **$3,400,000.00** Cost Match: **$0.00** Total Project **$3,400,000.00**

The County of San Diego (County) and its project partners, Mission Resource Conservation District (RCD), San Diego State University Santa Margarita Ecological Reserve (SMER), and San Diego Supercomputer Center (SDSC) seek funding to aid in the implementation of best management practices (BMPs) for commercial nurseries (both greenhouse and container crops), crop growers, horse stables, and septic systems. The project will also include the development of a total dissolved solids (TDS) management plan, a significant outreach effort and assessment monitoring to quantify resulting water quality improvements. The proposed project targets the primary surface and subsurface sources of excessive nitrogen and phosphorus linked to beneficial use impairments in the Santa Margarita River Watershed. These sources are identified in watershed plans and include nursery operations, residential septic systems and orchards. Grant funding will support the optimization of nursery tailwater recovery systems and other water saving, innovative, micro-irrigation devices (participating nurseries or growers will pay 100 percent of the capital costs for their systems), and extensive targeted public education, and BMP effectiveness monitoring. In addition, the project will effectively promote collaboration and coordination among watershed entities.

446 **County of San Diego Department of Public Works Watershed Protection Program**
Rainbow Creek Nutrient TMDL Implementation

Cooperating Entity 1: **County of San Diego Agricultural Weights and Measures** Cooperating Entity 2: **Fallbrook Mission Resource Conservation District**

Grant Requested: **$338,110.00** Cost Match: **$59,667.00** Total Project **$397,777.00**

The proposed project will address excessive nutrient inputs to Rainbow Creek by implementing structural and pollution prevention controls. The San Diego Regional Water Quality Control Board currently is preparing a nutrient TMDL for Rainbow Creek. Structural measures include the installation of a network of groundwater wells that will serve to inform residents when and where septic system/groundwater separation is insufficient for adequate wastewater treatment. Technical outreach and assistance, and effectiveness monitoring will also be provided during and after the installation of tail water recycling systems at nurseries in Rainbow Valley. Pollution prevention measures will expand on prior successful public education efforts of the Mission Resource Conservation District to target the diverse nutrient sources in the watershed.

447 **County of San Diego**
Residential/Light Commercial Automatic Irrigation Controller Demonstration and Outreach

Cooperating Entity 1: **San Diego County Water Authority** Cooperating Entity 2: **Sweetwater Authority**

Grant Requested: **$1,198,481.00** Cost Match: **$299,620.00** Total Project **$1,498,101.00**

The project is designed to protect drinking water quality in reservoirs by reducing over-irrigation runoff that potentially contains pathogens, nutrients, and pesticides from residential and light commercial areas located adjacent to drinking water reservoirs. This project aims to increase water use efficiency using evapotranspiration controllers, reducing the use and dependency of the region on imported water supplies. This project will also encourage through educational outreach the use of native plants and other alternative landscapes that save water. The effectiveness of BMPs implementation will be determined by monitoring and analyzing the quantity and quality of runoff before and after the implementation.

448 **County of San Diego Department of Public Works Watershed Protection Program**
Invasive Species Removal in the Cottonwood Creek area of the Tijuana River Watershed

Cooperating Entity 1: **Mission Resource Conservation District (MRCD)** Cooperating Entity 2: **County of San Diego Agricultural Weights and Measures**

Grant Requested: **$637,500.00** Cost Match: **$112,500.00** Total Project **$750,000.00**

The proposed project will remove approximately 360 acres of invasive species in Cottonwood Creek. A revegetation plan will be implemented to restore the watercourse with native vegetation. Water quality monitoring will be conducted upstream and downstream of the project areas before and after removal to assess water flow, water qulaity, and biological health of the system

449 **County of San Diego Department of Public Works**
Brookside Conveyance Restoration and Extended Detention Wet Pond Construction

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$1,200,000.00** Cost Match: **$300,000.00** Total Project **$1,500,000.00**

Design and construction of an extended detention wet pond and earthen channel improvement, including concrete conveyance channel removal and revegetation using native species. Project would also involve right of way acquisition and obtaining environmental clearances and permits.

450 **San Diego County**
Destruction of Abandoned Wells in San Diego County

Cooperating Entity 1: **Calfornia Groundwater Association** Cooperating Entity 2: **0**

Grant Requested: **$500,000.00** Cost Match: **$75,000.00** Total Project **$575,000.00**

The County and California Groundwater Association will cooperate to promote the proper destruction of abandoned wells through two avenues. One through an education campaign to increase resident awareness and cooperation in the destruction of wells. The other approach is to destroy abandoned wells where cooperative efforts fail or emergency hazardous conditions exist.

451 **County of San Diego**
Regional Monitoring Program for the County of San Diego Watershed Protection Program

Cooperating Entity 1: **Co-Permittees: Escondido, Oceanside, Vista, Carlsbad, Encinitas,** Cooperating Entity 2: **Local Watershed Groups**

Grant Requested: **$4,945,000.00** Cost Match: **$0.00** Total Project **$4,945,000.00**

The Regional Monitoring Program proposes the placement of water quality monitoring stations in key locations within each watershed. The monitoring stations will address pollutants of concern for several impaired (303(d) listed) water bodies by helping to identify pollutant sources. In addition, the monitoring stations may help identify pollutants not previously detected or listed.

452 **Butte County Department of Water and Resource Conservation**
Butte County Integrated Watershed Coordination Phase II

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$307,509.00** Cost Match: **$0.00** Total Project **$307,509.00**

The project would continue to fund the position of Butte County Watershed Coordinator. The position is part of the comprehensive Butte County Integrated Watershed Management Plan. The position serves as a liasion between county departments, the RCD, local stakeholders, and state and federal agencies. Stakeholder education and Best Management Practices implementation are sought to be funded through the collaborative development of a almond growers self assessment workbook..

453 **Marin County Stormwater Pollution Prevention Program (MCSTOPPP)**
Alternatives to A Toxic Tomorrow - Phase 2

Cooperating Entity 1: **San Joaquin County Public Works Solid Waste** Cooperating Entity 2: **Environmental Services JPA**
Grant Requested: **$857,000.00** Cost Match: **$0.00** Total Project **$857,000.00**

This project addresses the critical link between choosing the least toxic alternatives available to conventional pesticides - and their availability in the marketplace. By working with pesticide distributors, retail stores, schools, and the general public, the program makes it easier for the general public to identify - and use - safer alternatives. The program focuses on the reduction of diazinon, carbaryl, malathion and pyrethroids - known for causing or having the potential to cause surface water quality impairments and affect beneficial uses of pesticide-impaired waterbodies in the Central Valley of California. Sales data on the percent increase of less toxic and non-toxic products sold will also be made available to measure project success.

455 **Gateway Cities Partnership Inc. a 501C(3) corporation established in 1997**
Integration of NPS Pollution Source Reduction and Water Conservation Management Measures into Brownfields Redevelopment Projects

Cooperating Entity 1: **USC Center for Economic Development** Cooperating Entity 2: **City of Huntington Park/Redevelopment Agency**
Grant Requested: **$375,000.00** Cost Match: **$47,250.00** Total Project **$422,250.00**

Programmatic model for integrating local watershed management, regional water quality and supply enhancement priorities into Brownfields redevelopment projects: (1) builds local capacity for better watershed management through a focused outreach to landowners, (2) identifies opportunities & constraints to NPS pollution prevention, (3) emphasizes nonstructural approaches & conjunctive uses, (4) promotes self-compliance & voluntary adoption of good housekeeping practices by residents & commercial operations, (5) stresses local leadership involvement & neighborhood-based stewardship, (6) supports citizen water quality monitoring in cities in which there has been little past success, (7) forges a strong and effective pollution prevention partnership with residents, developers & community organizations and (8) expands research data on urban management measures & vegetated treatment systems

456 **City of Huntington Park Community Development Department**
Integrating NPS Pollution Reduction and Water Conservation Management Measures into the Huntington Park Sustainability Program

Cooperating Entity 1: **USC Center for Economic Development** Cooperating Entity 2: **Gateway Cities Partnership Inc. and Targhee Inc.**
Grant Requested: **$526,500.00** Cost Match: **$126,500.00** Total Project **$653,000.00**

Demonstration project integrating local watershed management, regional water quality and supply enhancement priorities into Brownfields redevelopment projects: (1) builds local capacity for implementation of watershed management practices, (2) identifies opportunities & constraints to NPS pollution prevention, (3) emphasizes both nonstructural and structural approaches in proposed park or remodeled park facility & conjunctive use, (4) promotes self-compliance & voluntary adoption of good housekeeping practices (5) stresses local leadership involvement & neighborhood-based stewardship, (6) supports citizen water quality monitoring, (7) forges a strong and effective pollution prevention partnership with residents, developers & community organizations and (8) will provide model approach for use by surrounding cities involved in the I-710 Brownfields Pilot managed by the Gateway Cities Partnership, Inc.

460 **United Water Conservation District**
Modifying Agricultural Practices to Reduce Nutrient and Pesticide Loading Calleguas Creek and Lower Santa

Cooperating Entity 1: **Calleguas Municipal Water District** Cooperating Entity 2: **Ventura County Farm Bureau**
Grant Requested: **$834,058.00** Cost Match: **$152,709.00** Total Project **$986,767.00**

The purpose of this project is to change the habits of a large segment of the agricultural community by demonstrating that modifying management practices can significantly reduce the discharge of nutrients and pesticides into surface waters, thus reducing impairments in Calleguas Creek and the Santa Clara River. The project will compare pre- and post-BMP implementation to measure performance, and will involve management practices on a sufficiently large scale to generate meaningful data and change within the agricultural community. The work will complement existing goals and priorities established by TMDLs and the Regional Water Quality Control Board's Basin Plan.

461 **Community Alliance with Family Farmers**
Assessment Prioritization and Mitigation of Water Quality Risks in the Northern San Joaquin Valley

Cooperating Entity 1: **Agricultural Geographic Information Systems Laboratory UC Davis** Cooperating Entity 2: **0**
Grant Requested: **$2,729,718.00** Cost Match: **$0.00** Total Project **$2,729,718.00**

Community Alliance with Family Farmers in partnership with the University of California, Davis, AGIS Laboratory will use GIS to identify agricultural risk factors for impaired water quality, assess the priority of these risks and diminish risk in the areas with levels of highest determined risk. Between data analysis and outreach, we will create a feedback loop where each of these elements informs the other, building the capacity of local groups to utilize this powerful set of tools, while the tools are being constructed with their guidance. This functioning feedback loop will identify the most important demonstration projects to undertake, and provide a framework for project evaluation.

462 **Earth Island Institute**
Urban Watershed Partnership -- Community Education and Capacity Building Program

Cooperating Entity 1: **Aquatic Outreach Institute** Cooperating Entity 2: **KIDS for the BAY**
Grant Requested: **$1,599,500.00** Cost Match: **$383,500.00** Total Project **$1,983,000.00**

The Community Education and Capacity Building Program will cultivate local leadership in watershed stewardship through training and education programs, mentoring, and incentive grants. We have found such leadership to be vital in implementing successful restoration projects. The program will also create an urban watershed education curriculum based on science teaching standards and deliver these services to teachers and classrooms, and provide training opportunities for teachers and community members through local community colleges. All aspects of the education program will improve water quality and creek and wetland habitats in the short term by involving students and community members in local restoration projects as part of their learning experience. They will also target traditionally underserved communities. In the long term, these programs will create communities with the motivation and resources to care for their local watersheds.

463 **Agriculture & Land Based Training Association (ALBA)**
Promoting Sustainable Agricultural and Land Management Practices on the Central Coast

Cooperating Entity 1: **Resource Conservation District of Monterey County** Cooperating Entity 2: **USDA-Natural Resources Conservation Service**
Grant Requested: **$500,000.00** Cost Match: **$150,000.00** Total Project **$650,000.00**

The primary purpose of this project is to promote appropriate land management, natural resource conservation, and sustainable farming practices among farmers and rural landowners around the Elkhorn Slough and lower Salinas and Pajaro River Watersheds. This project builds upon previously funded work in the Watershed to work towards the same goal. ALBA brings to bear the ability to teach and demonstrate practices as an educational institution and landowner, while also providing a reduced risk environment where farmers can experiment, as well as a space for researchers to investigate the efficacy and cost effectiveness of management and cultural practices in the protection of natural resources and water quality specifically.

464 **California Conservation Corps**
Sequoia National Forest Meadow Restoration

Cooperating Entity 1: **United States Forest Service** Cooperating Entity 2: **California Department of Fish and**
Grant Requested: **$302,050.00** Cost Match: **$53,450.00** Total Project **$356,000.00**

This project would improve habitat conditions for Little Kern Golden Trout habitat in Clicks Creek, Rainbow Trout in Long Meadow Creek and Last Chance Meadow. Reducing nonpoint source pollution at all three of these sites. The work would result in floodplane reconstruction of a downcut portion of these creeks that are currently disconnected from the floodpplane, or headcuts and stabilize stream banks.

466 **Arroyo Seco Foundation**
Arroyo Seco Watershed Assessment

Cooperating Entity 1: **Raymond Basin Management Board** Cooperating Entity 2: **Council of Arroyo Seco Agencies**
Grant Requested: **$968,875.00** Cost Match: **$0.00** Total Project **$968,875.00**

The Arroyo Seco Watershed Assessment (ASWA) will be a comprehensive assessment of the Arroyo Seco watershed, conducted by technical experts and agency representatives, coupled with the development of the Arroyo Seco Stream Team. The assessment will evaluate issues related to biology, hydrology, water supply and quality, while building cooperative relationships among the stakeholders who will finalize and implement a comprehensive watershed management plan. The Stream Team will expand citizen participation and organizational capacity in the watershed by undertaking educational and action projects related to the assessment.

467 **Placer County Water Agency (PCWA)**
Building Ecoliteracy through GIS Water Quality Monitoring and Watershed Stewardship

Cooperating Entity 1: **American River Watershed Institute** Cooperating Entity 2: **Placer Nature Center**
Grant Requested: **$1,991,000.00** Cost Match: **$387,500.00** Total Project **$2,378,500.00**

The project goal is to implement water quality monitoring stations along the Middle and North Forks for the American River and the Auburn Ravine to monitor and manage the American River Watershed. Provide data management to stakeholders and enhance ecoliteracy of the watershed.

468 Placer County Water Agency (PCWA)
Bear and Yuba River Water Quality Enhancement

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$431,500.00** Cost Match: **$65,500.00** Total Project **$497,000.00**

The project goal is to mitigate the threats to PCWA canals vulnerable to the effects of non-point source contamination from a variety of highways, roads, and railroads throughout the area of the raw water transportation system. The canals serve as a drinking water source for eight PCWA drinking water plants. Sites will be monitored and prioritized and Best Management Practices (BMPs) will be designed and constructed at the three most impaired sites.

469 Sacramento Tree Foundation
North Natomas Watershed: Adapting Low Impact Development Landscapes for Sustainable Living

Cooperating Entity 1: **City of Sacramento** Cooperating Entity 2:**US Forest Service / UC Davis**
Grant Requested: **$1,539,400.00** Cost Match: **$307,880.00** Total Project **$1,847,730.00**

Implement, monitor and evaluate storm water management BMPs for housing, street and parking lot development in new residential subdivisions. Educate developers, builders, residents and city agencies on storm water runoff retention, landscape water use reductions and resource efficient landscape design and management.

470 Panoche Drainage District
Grassland Drainage Area Reuse Development Project

Cooperating Entity 1: **Firebaugh Canal Water District** Cooperating Entity 2:**Pacheco Water District**
Grant Requested: **$376,500.00** Cost Match: **$68,500.00** Total Project **$445,000.00**

This project proposes to develop 250± acres of land w/in the SJIRP to salt tolerant crops and install six shallow groundwater monitoring wells. The land development will include the installation of subsurface drainage systems, groundwork, planting and germination. The monitoring wells will be installed to provide data to define the depth and quality of the groundwater within the SJRIP area.

471 San Joaquin Valley Drainage Authority
Agricultural Discharge Management Program Monitoring and Evaluation - West Stanislaus County

Cooperating Entity 1: **Coalition for Urban/Rural Environmental Stwardship (CURES)** Cooperating Entity 2:**Lawerence Berkeley National Laboratory (LBNL)**
Grant Requested: **$1,300,000.00** Cost Match: **$200,000.00** Total Project **$1,500,000.00**

This project will examine and evaluate four BMP strategies currently being used in the region for the control of sediments and pesticides: in-field practices, ponds, vegetated biofiltration systems, and constructed wetlands. We will examine the efficacy of these different systems for removing pesticides, nutrients, and sediments from agricultural drainage and determine their impact on reducing total organic carbon discharges from the region. Guidelines will be developed to assist stakeholders in the selection of appropriate BMP systems for use throughout WSC and the information developed in this project will be transferred to stakeholders via an outreach program.

472 Regents of the University of California
Food web transfer of organochlorine compounds (DDT PCBs) in piscivorous fish of the Upper Newport Bay

Cooperating Entity 1: **Southern CA Coastal Water Research Project** Cooperating Entity 2:**0**
Grant Requested: **$199,979.00** Cost Match: **$0.00** Total Project **$199,979.00**

The purpose of this project is to examine food-web interactions of organochlorine (OC) compounds (DDTs and PCBs) in predatory fish species of the upper Newport Bay. Fish of various trophic levels will be analyzed for specific DDT isomer and PCB congeners. Gut contents will be analyzed to determine prey and OC concentrations of prey in fish likely to be consumed by predacious birds of the Upper Newport Bay.

473 University of California at Davis
Water temperature distribution estimation in Klamath River Basin using remote sensing and GIS techniques

Cooperating Entity 1: **North Coast Regional Water Quality Control Board** Cooperating Entity 2:**University of California Davis**
Grant Requested: **$365,000.00** Cost Match: **$0.00** Total Project **$365,000.00**

University of California Davis in partnership with North Coast Regional Water Control Board will develop method for 3 dimensional water temperature distribution estimation in Klamath river basin, using remote sensing data and GIS technologies. We intend to generate images/maps about water temperature distribution and its dynamic change at various depths of the Basin, which is a very important ecological habitat in the region. The developed methods can be used to generate water temperature in other estuaries in California.

474 Solano County Water Agency
New South Channel Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,356,000.00** Cost Match: **$654,200.00** Total Project **$2,010,200.00**

This project combines a flood control channel with riparian, wetland and vernal pool habitat features. The channel is 2.5 miles long and is a part of an overall watershed drainage system.

475 **Solano County Water Agency**
Benicia Marina Storm Water Improvement Project

Cooperating Entity 1: **City of Bennicia** Cooperating Entity 2:**0**
Grant Requested: **$1,160,000.00** Cost Match: **$320,000.00** Total Project **$1,480,000.00**
This project corrects a stormwater quality problem at the Benicia Marina by the contruction of a new outfall and ancillary features. The project also provides for improved circulation at the marina improving water quality and improving an adjacent wetland.

476 **Zone 7 Water Agency**
Livermore-Amador Valley Upper Alameda Creek Nonpoint Source Pollution Control Consolidated Proposal

Cooperating Entity 1: **City of Pleasanton** Cooperating Entity 2:**City of Livermore**
Grant Requested: **$2,165,000.00** Cost Match: **$880,000.00** Total Project **$2,695,000.00**
This concept proposal includes a number of projects that will help investigate and implement solutions to solve water resources related issues in the Livermore Amador Valley (Valley) and Alameda Creek watershed. The tasks included in this concept proposal build of work being conducted as part of the Stream Management Master Plan (SMMP); stakeholder driven process that includes input from local agencies; residents and local stakeholder groups; and regulatory agencies.

477 **Regents of the University of California**
Natural Resource Projects Inventory

Cooperating Entity 1: **Resources Agency** Cooperating Entity 2:**California Biodiversity Council**
Grant Requested: **$300,000.00** Cost Match: **$295,000.00** Total Project **$545,000.00**
The Natural Resource Projects Inventory (NRPI) will provide valuable data on Prop 13 and Prop 50 funded projects throughout California, including the Bay-Delta Region, while tracking the implementation of the California NPS Pollution Control Program. Enhancements will include an online map of California, searchable by watershed and directly linked to NRPI projects and watershed groups and XML export capabilities, facilitating increased collaboration and partnerships . Building the eXtensible Markup Language (XML) will enable agencies to retrieve program specific projects directly from NRPI and retrofit that data for internal tracking, public communication or reporting purposes, preventing the duplication of efforts while preserving valuable agency resources.

478 **Trinity County Resource Conservation District**
Trinity River Watersheds TMDL Implementation

Cooperating Entity 1: **Trinity Adaptive Management Working Group** Cooperating Entity 2:**Trinity County Resource Advisory Committee**
Grant Requested: **$255,000.00** Cost Match: **$45,000.00** Total Project **$300,000.00**
This project will implement the recommendations of the Trinity River and South Fork Trinity River TMDL's (completed by the EPA in December 1998 and December 2001, respectively) to continue to conduct water quality monitoring to determine effectiveness of restoration BMPs. The Trinity River and South Fork Trinity River watersheds are included on California's Clean Water Act (CWA) Section 303 (d) list as water quality limited due to sediment. The sedimentation in both watersheds was judged to exceed the existing Water Quality Standards (WQS) necessary to protect the beneficial uses of the basin, particularly the cold water fishery. While implementation plans have not yet been developed, reductions in sediment load are anticipated through existing restoration programs. A comprehensive monitoring program is proposed to measure progress toward meeting EPA targets, by continuing and expanding on the water quality monitoring that has taken place over the past three years (with funding from Fish and Game and the SWRCB).

480 **County of Orange - Public Facilities & Resources Department**
Fifty-in-Five Bioengineered Treatment Feasibility Study

Cooperating Entity 1: **City of Costa Mesa** Cooperating Entity 2:**Surfrider Foundation-Newport Beach Chapter**
Grant Requested: **$250,000.00** Cost Match: Total Project **$250,000.00**
Study of the feasibility of converting an exsiting non-storm diversion to sanitary sewer into a bioengineered treatment system. Flows from the Greenville-Banning Channel are proposed to be treated in a wet pond-type treatment system at an expansion site for Fairview Park in Costa Mesa. Education and comparison of treatment system included.

481 **Fall River Resource Conservation District**
Beaver Creek Restoration

Cooperating Entity 1: **USDA Natural Resources Conservation District** Cooperating Entity 2:**CA Department Fish & Game**
Grant Requested: **$288,201.00** Cost Match: **$204,321.00** Total Project **$492,522.00**
Beaver Creek Restoration is a water efficiency and wildlife enhancement project in an important tributary to the Pit River in Lassen County. The proposed installation of 3500 feet of pipeline will replace an open ditch conveyance system that is prone to excessive percolation and evaporation. The projected water savings, estimated at 13 cubic feet per second (5,842 gallons per minute), would flow back into Beaver Creek increasing riparian vegetation and habitat while reducing streambank erosion. A new dike will control the flow to the lower reach of Beaver Creek and provide an emergency spillway that would allow sediment to disperse accross a pasture during high water events.

482 Tahoe Resource Conservation District

Innovative Watershed Management & Nonpoint Source Pollution Control in the Tahoe Basin

Cooperating Entity 1: **USDA/US Forest Service** Cooperating Entity 2: **El Dorado County**

Grant Requested: **$2,518,303.00** Cost Match: **$681,720.00** Total Project **$3,200,060.00**

This project will address the declining clarity of Lake Tahoe by mitigating the impacts of urban development, which is the primary cause of accelerated nutrient and sediment inputs. This project will promote enviromental stewardship by providing both community and school based education and outreach, which facilitates the implementation of Best Management Practices (BMP) on private property on the California side of the Lake Tahoe Basin. A monitoring program will provide education and stewardship opportunities for the public by expanding upon the existing water quality monitoring program.

484 Orange County Sanitation District

Fats Oils and Grease Control Study to Reduce Sanitary Sewer Overflows

Cooperating Entity 1: **County of Orange** Cooperating Entity 2: **0**

Grant Requested: **$250,000.00** Cost Match: **$50,000.00** Total Project **$300,000.00**

The purpose of this project is to develop a fats, oils and grease (FOG) control program that will address SSO incidents by controlling the amounts of FOG released into the sewer system within Orange County, through the use of treatment technology, education, and permitting. The FOG Control Study is preparing for a second phase that will involve multiple pilot test applications to test and measure the performance of various new or relatively unproven technologies identified in Phase I. This study is a joint effort bewteen OCSD, other local sanitation agencies, local cities, and the County of Orange, as it was determined that the interests of the county would be best met by conducting a county-wide, comprehensive study that provides a consistent, practical, and equitable approach to FOG

485 Mariposa County Resource Conservation District

Building a Sustainable Upper Merced River Watershed Orgnaization

Cooperating Entity 1: **Sierra Nevada Alliance** Cooperating Entity 2: **Yosemite National Park**

Grant Requested: **$189,500.00** Cost Match: **$0.00** Total Project **$189,500.00**

This proposal targets the implementation priorities of the CALFED Watershed Program by building local capacity to effectively manage a Bay Delta watershed and by conducting the baseline assessment necessary for the creation of a scientifically sound management plan.

486 South Tahoe Public Utility District

Improving the Aquatic Environment 0f Indian Creek Reservoir

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$486,000.00** Cost Match: **$155,843.00** Total Project **$641,843.00**

Indian Creek Reservoir is a 160 acre cold water fishery and recreational waterbody currently listed on the state's 303 (d) and TMDL Priority schedule for non-point source contamination due to nutrients from surrounding land uses and a high nutrient concentration in the reservoir sediments remaining from past reservoir uses. STPUD proposes to improve water quality in the reservoir through freshwater flushing by piping the Upper Dressler Ditch, which currently provides freshwater to ICR, in order to increase the freshwater delivcery and decrease ditch seepage and evaporative losses, hydraulic bottlenecks and maintenance problems.

488 East Merced Resource Conservation District

Merced River Alliance for a Coordinated Watershed Citizen Monitoring and Education Program

Cooperating Entity 1: **Mariposa County Resource Conservation District** Cooperating Entity 2: **Adopt a Watershed**

Grant Requested: **$517,560.00** Cost Match: **$78,000.00** Total Project **$595,560.00**

The proposed project seeks to forge an ongoing alliance between the East Merced Resource Conservation District (EMRCD) and the Mariposa County Resource Conservation District MCRCD, the Merced River Stakeholders (MRS), and the Upper Merced River Watershed Council (UMRWC). This alliance and unified focus on the watershed will help achieve mutual goals and increase stewardship, protection, and enhancement activities in the Merced River Watershed. The proposal establishes a Citizen Monitoring Program in the upper watershed, an Adopt-A-Watershed Education Program for K12 students in selected lower watershed communities, and outreach in the lower watershed to educate landowners and others regarding the SWRCB Ag Waiver Program.

489 **East Merced Resource Conservation District**
Proposal for Bank Stabilization Feasibility Assessment Demonstration Project and Landowner Outreach on the Lower Merced River

Cooperating Entity 1: **Stillwater Sciences** Cooperating Entity 2:**Community Alliance with Family**
Grant Requested: **$624,761.00** Cost Match: **$111,000.00** Total Project **$735,761.00**

The proposed project combines state-of-the-science bank stability assessment, biotechnical erosion control methods for ensuring bank stability and public education workshops for landowner education and outreach on the lower Merced River. The overarching goals of the proposed project are to protect streamside infrastructure and land uses where a demonstrable risk exists, improve degraded terrestrial and aquatic habitat, reduce the input of fine sediment to the river from bank erosion, reduce the presence of non-native, invasive plant species, and support the creation of a riparian corridor predominated by native riparian vegetation, thus re-establishing part of the historical value of the lower Merced River. Outreach to riparian landowners and property managers and in-the-field workshops will be conducted as a part of this proposal to advise landowners on biotechnical methods, to demonstrate how to implement or incorporate biotechnical practices, and to familiarize landowners with resources available for technical assistance. In addition, the proposed demonstration project and associated monitoring will result in recommendations that can assist in the development of BMPs for a river-wide permitting process.

490 **East Merced Resource Conservation District**
Proposal for Baseline Biological Monitoring on the Merced River

Cooperating Entity 1: **Mariposa County RCD** Cooperating Entity 2:**Stillwater Sciences**
Grant Requested: **$2,575,500.00** Cost Match: **$0.00** Total Project **$2,575,500.00**

The proposed project is a baseline biological monitoring program designed to compile and synthesize existing data and gather baseline data on fish, riparian bird, and aquatic macroinvertebrate species composition, distribution, and abundance in both the upper Merced River watershed and lower Merced River corridor. The baseline information acquired during the proposed monitoring program will increase understanding of ecosystem interactions in the watershed, help identify factors limiting ecosystem health, assist in the prioritization of management and restoration actions, and enable the effectiveness of implemented actions to be evaluated. The proposed project represents a coordinated, comprehensive, watershed approach to information development, coordination, and community-based watershed management.

491 **City of Emeryville**
Emeryville WRRAP (Water Runoff Retrofit & Abatement Program)

Cooperating Entity 1: **Alameda County Clean Water Program** Cooperating Entity 2:**0**
Grant Requested: **$250,750.00** Cost Match: **$44,250.00** Total Project **$295,000.00**

WRAPP will implement, measure and assess a non-point source reduction program to retrofit existing sites. The main activities involve development of runoff and pollution reduction programs for retrofit sites. Programs for new development sites are covered under a separate program. The program also includes monitoring and assessment, public participation and outreach activities.

492 **County of San Diego Department of Public Works**
Nutrient Reduction and TDS Management Plan for San Luis Rey Watershed

Cooperating Entity 1: **County of San Diego Agrricultural Weights and Measures** Cooperating Entity 2:**Mission Resource Conservation**
Grant Requested: **$4,220,000.00** Cost Match: **$0.00** Total Project **$4,220,000.00**

The County of San Diego (County) and its project partners, County Department of Public Works, County Department of Agricultural Weights and Measures, Mission Resource Conservation District (MRCD), San Luis Rey Watershed Council, and UCSD Supercomputer Center seek funding to aid in the implementation of best management practices (BMPs) for commercial nurseries (both greenhouse and container crops), crop growers, horse stables, and septic systems. The project will also include the development of a total dissolved solids (TDS) management plan, a significant outreach effort and assessment monitoring to quantify resulting water quality improvements. These sources are identified in watershed plans and include nursery operations, residential septic systems and orchards. Grant funding will support the optimization of nursery tailwater recovery systems and other water saving, innovative, micro-irrigation devices (participating nurseries or growers will pay 100 percent of the capital costs for their systems), and extensive targeted public education, and BMP effectiveness monitoring. In addition, the project will effectively promote collaboration and coordination among watershed entities.

493 **Yolo County Resource Conservation District (RCD)**
Willow Slough Watershed Improvement Program

Cooperating Entity 1: **Audubon California** Cooperating Entity 2:**USDA ARS**
Grant Requested: **$3,387,468.00** Cost Match: **$612,000.00** Total Project **$3,999,468.00**

This project will provide landowner conservation support and watershed coordination for the Willow Slough Watershed in Yolo County, CA. Restoration and conservation work will be accompanied by intensive monitoring and research projects to assess effectiveness for improving farm and rangeland runoff water quality, soil quality, and wildlife habitat. An intensive outreach program will draw area high school students into ecological learning opportunities, will communicate project results through monthly field meetings and literature, and refine and extend the Yolo Online Agricultural Conservation Planning decision-aid tool.

494 **Yolo County Resource Conservation District (RCD)**
Water quality benefits of vegetated agricultural drainage ditches as a viable management practice

Cooperating Entity 1: **AQUA-Science** Cooperating Entity 2: **USDA Agricultural Research Service**
Grant Requested: **$783,414.00** Cost Match: **$341,825.00** Total Project **$901,239.00**

This project will demonstrate the mitigation efficiency of vegetated drainage ditches to reduce the loads of sediment, OP pesticides, and pyrethroids in agricultual runoff, before entering aquatic environments. A model will be generated in order to design the optimum ditch structure. Using chemical analysis, toxicity tests, bioassessments, and modeling, this project will be capable of generating percent reductions of these pollutants.

495 **Yolo County Resource Conservation District (RCD)**
The Coordinated Yolo/Solano Sub-watershed Water Quality Improvement Program

Cooperating Entity 1: **Yolo County Farm Bureau** Cooperating Entity 2: **Solano & Dixon RCDs**
Grant Requested: **$2,652,179.00** Cost Match: **$142,000.00** Total Project **$2,794,179.00**

The Coordinated Yolo/Solano Sub-watershed Water Quality Improvement Program, through the Yolo County Resource Conservation District (YCRCD), will conduct a watershed-wide water quality planning, implementation and monitoring program, coordinate the participation of multiple stakeholders with the Yolo County Farm Bureau and Dixon and Solano RCDs, and conduct a community-based education program to promote awareness of water quality issues and management within the Yolo/Solano Sub-watershed (YSSW).

496 **Lawrence Berkeley National Laboratory**
Assessment of Endocrine Disruptor Activity of Pesticide Associated Surfactants

Cooperating Entity 1: **California Water Institute Fresno State University** Cooperating Entity 2: **0**
Grant Requested: **$400,000.00** Cost Match: **$40,000.00** Total Project **$400,000.00**

This proposal will improve the understanding of the sources, fate, transport, and transformation of endocrine disrupting pesticide associated surfactants from agriculture and managed wetlands in the San Joaquin Valley of California. To accomplish this goal we have identified two major tasks: 1. Examine the causal relationship between endocrine disruption and various pesticides and pesticide associated surfactants in laboratory microcosms, and 2. Establish the correlation between specific pesticides, their pesticide associated surfactants, and their potential for endocrine disruption in surface waters from various land use activities throughout the San Joaquin Valley of California.

497 **Los Angeles Department of Water and Power**
Artificial Turf Incentive Project

Cooperating Entity 1: **City of Los Angles Bureau of** Cooperating Entity 2: **0**
Grant Requested: **$500,000.00** Cost Match: **$130,000.00** Total Project **$630,000.00**

This project will provide incentives for service area customers replacing their natural landscape with artificial turf. The project targets service area customers with athletic fields such as local colleges and universities. The incentive amount is crucial to entice service area customers and offset installation costs.

498 **Los Angeles Department of Water and Power**
Residential Landscape Controller Program

Cooperating Entity 1: **City of Los Angles Bureau of** Cooperating Entity 2: **Metropolitan Water District of Southern California**
Grant Requested: **$3,500,000.00** Cost Match: **$1,000,000.00** Total Project **$4,500,000.00**

This project entails replacing 10,000 manual-adjust irrigation controllers with weather-based auto-adjust controllers in residential homes having medium to large landscapes. Installation includes minor irrigation system repairs (as needed) to improve existing system performance.

499 **Los Angeles Department of Water and Power**
Rose Valley Aquifer Storage and Recovery Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$1,200,000.00** Cost Match: **$300,000.00** Total Project **$1,500,000.00**

This is an Aquifer Storage and Recovery project. Part of exported water from Owens Valley will be strored during wet years and will be recovered during dry years. This will help protect environmental resources in the Owens Valley during dry years.

500 **Los Angeles Department of Water and Power**
Mono/Owens Watershed Management Area Fencing Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$2,640,000.00** Cost Match: **$660,000.00** Total Project **$3,300,000.00**

Presently there are no controls in place to keep livestock and recreationists from accessing various watershed locations in Owens Valley. This project will install approximately 180 miles of perimeter fencing along four strategic locations in the lower Owens River, middle Owens River, Haiwee Reservoir, and Crowley Reservoir. The fencing will act as a form of erosion control thereby reducing nonpoint source pollution to ground and surface waters.

502 **Yolo County Resource Conservation District**
CAPAY VALLEY WATERSHED IMPROVEMENT PROGRAM

Cooperating Entity 1: **Capay Valley Vision** Cooperating Entity 2:**FARMS Leadership Inc.**
Grant Requested: **$1,608,400.00** Cost Match: **$316,000.00** Total Project **$1,924,400.00**

The proposed project brings together diverse stakeholders to address watershed stewardship not only as it relates to environmental health, but also as it relates to the economic viability of local agriculture and the social fabric of the local communities. Emphasis will be placed on poroviding the local communities with forums for discussing and determinging the most localy appropriate means to improve watershed health. A community visioning process and focused task forces will engage the diverse residents of the Capay Valley Region in planning and implementing actions that address education, health, economic, agricultural, and environmental issues. Local watershed groups will engage in planning and implementing watershed stewardship projects that will improve water quality, reduce erosion, enhance riparian areas and wildlife habitat, manage invasive vegetation, and improve the overall health of the bioregion.

503 **San Diego State University Foundation**
San Diego Watrershed Ambient Water Quality Monitoring by Citizens

Cooperating Entity 1: **County of San Diego/Dept. of Envron. Health/Land & Water Quality Div.** Cooperating Entity 2:**San Diego Stream Team**
Grant Requested: **$495,196.00** Cost Match: **$34,491.00** Total Project **$529,687.00**

Coordinate, evaluate, improve, and expand citizen monitoring programs in San Diego Region. Provide assistance, quality assurance, educational and outreach to enhance ambient water quality monitoring. Coordinate collection and dissemination of data, group information, and activities in Region 9.

504 **City of San Jose Environmental Services Department**
Identifying the Chemical Forms and Fate of Mercury in a Municipal Wastewater Treatment Plant Discharging into San Francisco Bay

Cooperating Entity 1: **Tetra Tech Inc** Cooperating Entity 2:**0**
Grant Requested: **$310,000.00** Cost Match: **$250,000.00** Total Project **$570,000.00**

The goals of this project are to understand the chemical transformations of mercury as it flows through and is discharged by the San Jose/Santa Clara Water Pollution Control Plant, and the fate of the mercury forms that are removed from wastewater by the treatment plant. This study will also evaluate the options available to the treatment plant to minimize the discharge of bioavailable forms of mercury to the bay as well as evaluate options for cost-effective pollution prevention activities.

505 **Department of Conservation California Geological Survey (CGS)**
Develop Sub-Regional Implementation Tools for stream restoration efforts in RWQCB Region 2. including education and training on the need for and use of such tools.

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$800,000.00** Cost Match: **$0.00** Total Project **$800,000.00**

Develop implementation tools to assess stable stream channel dimensions for use in permitting, funding and conductiong stream restoration within the different climatic zones of the Bay Area. Specifically, update and expand regional curves depicting relationships between channel gradient and bankfull cross-sectional area, and channel meander length, width, and sinuosity. Assist RWQCB staff carry out goals of SF Bay Area Basin Plan and Porter-Cologne Act and to educate and train local entities and stakeholders in the usefullness and application of the developed tools.

507 **Pacific Coast Fish Wildlife and Weltands Restoration Association (PCFWWRA)**
Upper Redwood Creek Watershed Improvement Project

Cooperating Entity 1: **CA Department of Fish and Game** Cooperating Entity 2:**Redwood National and State Parks**
Grant Requested: **$258,000.00** Cost Match: **$170,000.00** Total Project **$428,000.00**

The purpose of this project is to protect water quality and the biological productivity of Redwood Creek from impacts created by accelerated human-caused erosion. This project will implement cost-effective erosion control and prevention practices on high priority roads that were identified in a recently completed upper Redwood Creek watershed road assessment. This project will treat roads so that fill failures, stream crossing washouts and stream diversions do not degrade water quality and aquatic habitat with the Redwood Creek watershed.

508 **University of California Davis**
Long Term Risk of Groundwater and Drinking Water Degradation from Dairies and Other Nonpoint Sources in the San Joaquin Valley

Cooperating Entity 1: **U.S. Geological Survey** Cooperating Entity 2:**Merced County Environmental Health**
Grant Requested: **$1,139,085.00** Cost Match: **$137,538.00** Total Project **$1,256,623.00**

This project addresses nonpoint source contamination of groundwater in the San Joaquin Valley dairy regions. Specifically, nitrate, salinity, and microbial pathogens are of concern. The project meets critical source and ambient groundwater monitoring needs in Stanislaus/Merced County and Tulare/Kings County. And it provides a longterm assessment of the regional impacts of nonpoint sources on future groundwater quality and availability. Groundwater in the project area is the primary source of drinking water for rural residences and communities; potentially discharges into the San Joaquin River affecting water quality in the Bay-Delta; and serves as groundwater bank for conjunctive use of surface and groundwater in conjunction with the State Water Project and the Central Valley

509 **Montery Bay Sanctuary Foundation**
Microbial Source Reducation to the Waters of the Monterey Bay National Marine Sanctuary Through Infrastructure Improvement and Education

Cooperating Entity 1: **Monterey Bay National Marine** Cooperating Entity 2:**Numerous - See Attached Narrative**
Grant Requested: **$777,325.00** Cost Match: **$137,175.00** Total Project **$914,500.00**
This project will seek to reduce microbial contamination entering the Monterey Bay National Marine Sanctuary through a combination of infrastructure improvements and education. Tasks will include a private lateral inspection and repair program, sewer line replacement, the construction of RV pumpout stations, education and outreach programs, and monitoring.

510 **Sonoma County Department of Transportation and Public Works**
Implementing an Effective Storm Water Management Program in the Russian River Watershed

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,109,500.00** Cost Match: **$212,500.00** Total Project **$1,278,000.00**
This project restores and protects the Russian River Watershed by implementing stormwater and runoff pollution reduction and prevention programs for the restoration and protection of the water quality and environment of the watershed. A second project reduces sediment in the Russian River watershed by building a removable bridge to replace a seasonal gravel and culvert summer Russian River crossing, known as the Korbel crossing, near Rio Nido.

511 **California State Coastal Conservancy**
Ormond Beach Wetlands Restoration Ventura County

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2:**U.S. Environmental Protection Agency**
Grant Requested: **$5,000,000.00** Cost Match: **$1,380,000.00** Total Project **$6,380,000.00**
The project will restore coastal wetland and water quality functions and supporting upland buffer functions at an 800-acre planning area in southeast Ventura County. Restoration actions will include establishment of tidal circulation and habitat for 7 threatened or endangered species, while possibly accommodating hydrologic enhancements from interior water sources and incorporating compatible visitor access and bilingual public outreach opportunities. Comprehensive restoration plans and environmental assessments are anticipated for completion in early 2005. The project area has been a high priority for State and Federal agencies for more than 8 years and for many local parties and advocates for more than 12 years.

513 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
La Cienaga Blvd. Stormwater Treatment Wetlamds

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,200,000.00** Cost Match: **$300,000.00** Total Project **$1,500,000.00**
The La Cienga Blvd. Stormwater Treatment wetlands will be a two acre park that will treat water diverted from Ballona Creek naturally before it returned to Ballona Creek. The park will provide habitat for birds as well as recreation for residents in this highly urbanized

514 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Jefferson Blvd. Stormwater Treatment Wetlands

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$1,200,000.00** Cost Match: **$300,000.00** Total Project **$1,500,000.00**
The Jefferson Blvd. Stormwater Treatment wetlands will be a two acre park that will treat water diverted from Ballona Creek naturally before it returned to Ballona Creek. The park will provide habitat for birds as well as recreation for residents in this highly urbanized

515 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Coordinated Management of the Ballona Wetlands Ballona Lagoon Del Rey Lagoon Venice Canal and Grand

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$212,500.00** Cost Match: **$37,500.00** Total Project **$250,000.00**
This project will develop the policies, agreements, and guidelines for the coordinated management of the Ballona Wetlands, Ballona Lagoon, Del Rey Lagoon, Venice Canal, and Grand Canal. Currently, different government groups manage these important natural resources independently. This project would identify the main benificial areas of all 5 waterways and develop unifying policies in order to improve water quality, natural habitat, and recreation.

516 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Middlebury/Madison Storm Drain Retrofit

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$720,000.00** Cost Match: **$180,000.00** Total Project **$900,000.00**
The Middlebury/Madison Storm Drain Retrofit project will create a neighboorhood public park that will address current and future TMDL mandates for Ballona Creek through installation of a biofiltration system. The project will filter urban pollutants before they enter Ballona Creek and ulimatley Santa Monica Bay.

518 **Sacramento River Watershed Program**
Exposure assessment model development and mitigation techniques to protect aquatic life and drinking water in Sacramento River

Cooperating Entity 1: **U.S. Geological Survey** Cooperating Entity 2: **California Department of Pesticide Regulation**
Grant Requested: **$1,266,008.00** Cost Match: **$340,571.00** Total Project **$1,606,579.00**
This project will characterize drinking water and pesticide parameters in the Sacramento Valley watershed through a combination of geographical information system (GIS) analysis, simulation modeling, and focused in-stream monitoring. Objectives are to identify and quantify major sources of contaminant loadings, rank water-bodies by relative degree of impairment, and predict water quality benefits that are likely to be achieved under alternate A116mitigation plans. The project team is a consortium of qualified experts from federal (USGS, USEPA) and state (CDWR, CDPR, CDFG) agencies, academia (UCD), consultants, and stakeholder involvement. This project has leveraged a 21.2% match and 1,712 hours of in-kind labor towards the entire effort.

520 **Coastal San Luis Resource Conservation District**
Los Osos Creek Wetland Reserve Enhancement Project

Cooperating Entity 1: **Morro Bay National Estuary Program** Cooperating Entity 2: **Morro Estuary Greenbelt Alliance**
Grant Requested: **$500,000.00** Cost Match: **$163,800.00** Total Project **$663,800.00**
Acquire an additional 41 acres of riparian floodplain along Los Osos Creek to expand an existing 112-acre wetland reserve area located adjacent to land used for irrigated row crop production. By revegetating the historic floodplain and associated riparian and wetland areas, and the project will: (1) reduce the severity of flooding on adjacent farmland that remains in production; (2) expand and enhance the quality of habitat for federal and state listed species including steelhead and red-legged frogs known to occur in the project area; and (3) reduce sediment, nutrient, and other pollutant loads and improve water quality in Los Osos Creek and downstream in Morro Bay.

521 **Coastal San Luis Resource Conservation District**
Morro Bay On-Farm Coastal Water Quality Implementation Project (Project Clearwater)

Cooperating Entity 1: **Natural Resources Conservation** Cooperating Entity 2: **Morro Bay National Estuary Program**
Grant Requested: **$493,593.00** Cost Match: **$734,483.00** Total Project **$1,228,076.00**
Provide three years of technical assistance and cost-sharing funds for landowners to install BMPs on their land in order to reduce sediment, nutrient, and bacteria flow to Morro Bay. Landowners will participate in "short-courses" where they will write practical, individual conservation plans. With cost-sharing support, these landowners will implement and maintain BMPs such as fencing, improved grazing systems, tree planting, fish stream improvement, vegetative buffer strips, and cover cropping.

524 **Napa-Vallejo Waste Management Authority**
Good Luck Bay

Cooperating Entity 1: **State Lands Commision** Cooperating Entity 2: **Army Corp of Engineers**
Grant Requested: **$4,130,000.00** Cost Match: **$624,442.00** Total Project **$4,754,442.00**
Material from a former burn dump, contaminated with PHAs and metals, was used to build a dike. That dike is currently eroding into the Napa River. Removal of the dike will remove the contaminated material from the river and will return about 30 acres of wetlands to the Napa River. The material will be disposed at either the adjacent American Canyon Sanitary Landfill, which is currently closing using clean fill, or to a Class I landfill for soil containing hazardous waste concentrations.

525 **California Department of Water Resources**
Arroyo Pasajero Westside Detention Basin Restoration Project

Cooperating Entity 1: **U.S. Bureau of Reclamation** Cooperating Entity 2: **0**
Grant Requested: **$5,000,000.00** Cost Match: Total Project **$13,000,000.00**
The project will reduce flooding and impacts of flooding in and beyond the Arroyo Pasajero watershed including the San Luis Canal, a reach of the California Aqueduct, which has been breached and water deliveries disrupted and curtailed to over 2 million acres of San Joaquin Valley agriculture and almost 20 million So. California users. The project will restore the Westside Detention Basin to its original design capacity of 100-year floods, and improve protection provided by the western embankment of San Luis Canal, which will prevent floodwaters laden with salts, sediment and asbestos from breaching the Canal and protect beneficial uses of state waters therein.

526 **West Lake Lake Management Association**
WESTLAKE LAKE WATER QUALITY ENHANCEMENT PROJECT

Cooperating Entity 1: **Clean Lakes Inc.** Cooperating Entity 2: **Blankinship & Associates Inc.**
Grant Requested: **$824,500.00** Cost Match: **$145,500.00** Total Project **$970,000.00**
The project design would reduce nutrient and debris imputs into the lake system through coordination and cooperation with upstream user groups and manicipalities. In lake goals are to reduce algae growth through nutrient reductions (alum treatment) and increased oxygen and circulation through aeration. Nutrient imput reductions as well as in lake nutrient control and aeration is expected to have a reversing effect on the current eutrophic condictions present in the system. Community outreach will be an intragal component of the project to support a decrease in organic enrichment of the lake system. The project will support downstream improvements to the Malibu Creek Watershed from discharges of a higher quality water from Westlake Lake.

527 **County of Orange**
Serrano and Borrego Creeks Watershed Feasibility Studies

Cooperating Entity 1: **Serrano Creek Conservancy** Cooperating Entity 2: **Lake Forest Keys Association**
Grant Requested: **$765,000.00** Cost Match: **$135,000.00** Total Project **$900,000.00**

The objective of this project is to develop a multi-objective, integrated, highly collaborative Watershed Management Plan focused on maintaining, restoring and enhancing healthy Serrano and Borrego Creeks Watersheds. Working under the experienced leadership and technical expertise of the Los Angeles District of the U.S. Army Corps of Engineers (COE) in collaboration with the city of Lake Forest, the Irvine Ranch Water District, the Serrano Creek Conservancy, local homeowners, and many other watershed stakeholders, the project will examine existing conditions, identify opportunities and constraints, evaluate alternative projects and management measures and recommend solutions.

528 **Friends of Harbors Beaches and Parks**
Orange Coast River Park General Development Plan

Cooperating Entity 1: **City of Costa Mesa** Cooperating Entity 2: **County of Orange**
Grant Requested: **$634,000.00** Cost Match: **$112,000.00** Total Project **$746,000.00**

The goal of this project is to complete master planning and develop a detailed action plan for a 1000 acre river park at the mouth of the Santa Ana River. The River Park would rival San Francisco's Golden Gate Park in size. The Orange Coast River Park's General Development Plan will include a series of integrated, multidisciplinary tasks in order to achieve one goal: the creation of a plan that illustrates the future direction of the park. It will incorporate an action plan that formulates a detailed set of "next steps" for each of the multiple land areas that form the Orange Coast River Park.

529 **City of Newport Beach**
Upper Newport West Bay Ecosystem Restoration

Cooperating Entity 1: **City of Costa Mesa** Cooperating Entity 2: **Newport Bay Naturalists and Friends**
Grant Requested: **$1,125,000.00** Cost Match: **$200,000.00** Total Project **$1,325,000.00**

In the West Upper Newport Bay, this project protect and restore sensitive wetlands, salt marsh, riparian and coastal sage scrub habitats, remove non-native vegetation, develop a comprehensive trail and access system, integrate high quality interpretation and public education and outreach, restore eroding and currently barren bluffs, drainages and upland areas with native plants, restore Santa Isabel Channel, prevent costly and damaging erosion and improve public safety, remove 9 acres of historic dredge spoil material and develop a plan for ongoing maintenance emphasizing sustainability.

530 **City of Westminster**
Citywide Nonpoint Source Pollution Control - City of Westminster

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$212,500.00** Cost Match: **$37,500.00** Total Project **$250,000.00**

The City of Westminster is proposing a two-part concept project for the control of non-point source pollutants. One part of this concept project is to install gross pollutant seperators in City storm drains adjacent to the drain outlet to County flood control channels to control non-point source pollutants from entering these channels which lead to 303(d) impaired water bodies. The second part of this project is to obtain funding to fund an annual flood control channel cleanup for the next 4 years where local non-profit organizations will be involved in this flood control channel cleanup.

531 **Lawrence Berkeley National Laboratory**
Evaluating the Drinking Water Impact of Wetland Derived Organic Carbon

Cooperating Entity 1: **San Luis National Wild Life Refuge** Cooperating Entity 2: **California Water Institute Fresno State University**
Grant Requested: **$405,000.00** Cost Match: **$80,000.00** Total Project **$485,000.00**

The hypothesis of this research is that different wetland management practices will result in different water quality outcomes and that these management practices will have a significant impact on the quantity and quality of the organic carbon that is released when the wetlands are drained. We will test this hypothesis by collecting and characterizing water samples from the San Luis National Wildlife Refuge (SLNWR) and relating water quality to management practices as they are applied throughout the refuge. We will then relate our findings from the SLNWR to other public and private refuges in the SJR Basin and use publicly available data, including regional flow data, to estimate the potential impact of wetland organic carbon on drinking water quality at the lower reaches of the SJR.

532 **Mountains Restoration Trust**
Headwaters to Groundwater: Upper Los Angeles River Area Assessment Project

Cooperating Entity 1: **Southern California Wetlands Recovery Project** Cooperating Entity 2: **Mr. Mel Blevins Watermaster for**
Grant Requested: **$400,000.00** Cost Match: **$10,000.00** Total Project **$410,000.00**

This project intends to provide a water quality and habitat assessment of an underserved area not included in any watershed management plan to date: the headwaters of the Los Angeles River. The geographical area that will be assessed forms the natural headwaters of the Los Angeles River which provide recharge to the San Fernando Valley Groundwater Basin (SFVGWB), an important local water source.

533 **Sierra Forest Communities Institute**
Foresthill/Colfax CEQA Grade Watershed Inventory and Analysis Project

Cooperating Entity 1: **High Sierra Resource Conservation and Development Council** Cooperating Entity 2: **Sierra Economic Development District**

Grant Requested: **$344,400.00** Cost Match: **$30,000.00** Total Project **$374,400.00**

This concept proposal is designed as the necessary first phase project supporting our teams involvement in two implementation oriented concept proposals submitted to the RWQCB for consideration. Concept proposals, PIN #359 and PIN #559, will greatly benefit from the local capacity building and CEQA grade environmental analysis work proposed in this concept. The area of focus encompasses six contiguous Cal water 2.2 planning subwatersheds for a total inventory and analysis area of 47,487 acres. The principal project tasks are: Inventory current environmental conditions so as to build out a detailed and accurate suite of GIS data layers, build local stakeholder buyin for Watershed analysis and predictive model products of the project, train local workforce to conduct field work, recomend a suite of remediation projects targeted to improve the beneficial usage of our water resource.

534 **Redwood Community Action Agency**
Mad River Estuary Enhancement Program

Cooperating Entity 1: **Stillwater Sciences** Cooperating Entity 2: **Friends of the Mad River**

Grant Requested: **$763,976.00** Cost Match: **$166,699.00** Total Project **$930,675.00**

The main goal of the Mad River Estuary Enhancement Project (MEEP) is to protect and improve the water quality and environment of the lower Mad River and its estuary. MEEP has three primary objectives: 1. Collect and synthesize baseline information describing physical and biological characteristics of the lower watershed and estuary using GIS. 2. Increase coordination of effort, and public awareness and actions to improve beneficial uses of lower Mad River and estuary3. Implement road and erosion inventories, and erosion control and riparian revegetation projects to address sediment and temperature impairment.

535 **Redwood Community Action Agency**
Humboldt Bay Water Quality Improvement Program

Cooperating Entity 1: **Salmon Forever** Cooperating Entity 2: **Humboldt Bay Watershed Advisory Committee**

Grant Requested: **$295,000.00** Cost Match: **$108,000.00** Total Project **$403,000.00**

This funding request is for the third year of a water quality monitoring project for HB watershed the purpose of which is to protect and improve the water quality and environment of the Humboldt Bay and its source waters. The first two years of monitoring have been funded in the 2002 round of CNPS funding. The request includes watershed-based database/GIS system, and public outreach and education program, implementation of priority sediment reduction projects. The program area includes TMDL waterbodies Elk River and Freshwater Creek

536 **Sacramento Area Flood Control Agency**
Gardenland Mine Site Restoration

Cooperating Entity 1: **Sacramento County** Cooperating Entity 2: **City of Sacramento**

Grant Requested: **$1,455,000.00** Cost Match: **$1,460,000.00** Total Project **$2,915,000.00**

This project would consist of regrading a portion of the highly disturbed 128-acre mining site to create proper floodplain hydrology, and restoring native riparian and wetland vegetation. The revegetation would stabilize the site, reducing sheet runoff and sedimentation from bare soils. It would provide wildlife habitat and human recreational opportunities. It would be consistent with regional planning and with citizens' group efforts (especially the Lower American River Task Force) to incorporate the site into the American River Parkway, connecting a continuous 23-mile river corridor buffer zone.

537 **Sacramento Area Flood Control Agency**
Folsom Dam Temperature Shutter Modification

Cooperating Entity 1: **United States Bureau of Reclamation** Cooperating Entity 2: **The Water Forum**

Grant Requested: **$4,500,000.00** Cost Match: **$2,900,000.00** Total Project **$7,400,000.00**

This project would modify the Folsom Dam penstock intake to provide greater control of discharge water temperature and enable American River water temperatures to be optimized for the life cycle of anadromous fish. Downstream temperatures reflect temperatures at the reservoir depth from which water is withdrawn. This depth is moderated by temperature control shutters on Penstock Number 3. The shutter panels are stacked to form a vertical water conduit at the penstock intake. The water withdrawal depth is determined by raising taller stacks of panels to withdraw water from deeper in the reservoir. However, shutter panels are grouped so that withdrawal depths change in large steps, giving poor control over discharge water temperature. This project would allow the panels to be moved in smaller units, thus maximizing control over discharge temperatures and anadromous fish habitat

538 **Sacramento Area Flood Control Agency**
Bushy Lake Ecosystem Restoration

Cooperating Entity 1: **CalExpo** Cooperating Entity 2: **County of Sacramento Dept. of Regional Parks Recreation and Open**

Grant Requested: **$3,544,000.00** Cost Match: **$1,573,000.00** Total Project **$5,117,000.00**

Bushy Lake is a modified natural lake in the American River floodplain that once received drainage from Chicken Ranch and Strong Ranch Sloughs. When levees were built along the American River, it was separated from the sloughs, and since then the habitat quality has degraded. This project would divert a portion of the water from its original watershed back to Bushy Lake, restoring a higher water level and improving wetland vegetation quality. A treatment wetland would be created for the inflow to remove urban runoff pollutants prior to discharge into Bushy Lake. An operable high-water outfall channel would also be added to reduce fish entrapment when American River floods recede.

539 **Sacramento Area Flood Control Agency**
Dry Creek Watershed Enhancement Project

Cooperating Entity 1: **Placer County Flood Control and Water Conservation District** Cooperating Entity 2: **County of Sacramento Dept. of Regional Parks Recreation and Open**

Grant Requested: **$1,618,112.00** Cost Match: **$2,849,723.00** Total Project **$4,467,835.00**

This project will enhance environmental quality, restore floodplain processes, and reduce flood damages in the Dry Creek Watershed. It will result in eradication of approximately 100-acres of the invasive riparian tree red sesbania, construction of the Miner's Ravine Off-Channel Flood Detention Basin, renovation of the existing Hayer Dam to improve fish passage, and removal of private non-engineered levees and other rubble.

540 **Sacramento Area Flood Control Agency**
Woodlake Area Planning

Cooperating Entity 1: **Sacramento County Dept. of Regional Parks Recreation and Open Space** Cooperating Entity 2: **City of Sacramento Department of Parks and Recreation**

Grant Requested: **$250,000.00** Cost Match: **$105,000.00** Total Project **$355,000.00**

Sacramento County is leading a collaborative process to update the 1985 American River Parkway Master Plan, a plan for a 23-mile reach of the river through Sacramento. The plan subdivides the Parkway into reaches subject to individual area plans, including Woodlake. Woodlake was acquired after the 1985 Parkway Plan and does not have an existing area plan. Detailed planning is necessary to address habitat degradation, invasive species, safety issues, fish entrapment, and lack of recreation access. This project would fund that planning effort and create opportunities for habitat enhancement and water quality improvement.

541 **Sacramento Area Flood Control Agency**
Sacramento River Bank Revegetation

Cooperating Entity 1: **City of Sacramento Department of Parks and Recreation** Cooperating Entity 2: **West Sacramento Redevelopment Agency**

Grant Requested: **$800,000.00** Cost Match: **$400,000.00** Total Project **$1,200,000.00**

This project implements the riparian revegetation component of the Sacramento Riverfront Master Plan now being prepared by the West Sacramento Redevelopment Agency and the Sacramento Department of Parks and Recreation. It consists of riparian plantings on both banks of a a 2.3-mile stretch of the Sacramento River south of its confluence with the American River. Riparian trees, shrubs, and herbaceous plants will be planted in shoreline strips, patches, or planter modules depending on the existing conditions of the shoreline. The purpose of the planting will be to stabilize the shoreline, enhance shaded riparian aquatic habitat, and beautify this largely urbanized stretch of riverfront.

542 **Sacramento Area Flood Control Agency (SAFCA)**
American River Parkway Invasive Plant Management Project / Phase II

Cooperating Entity 1: **California Conservation Corp** Cooperating Entity 2: **Sacramento County Department of Parks**

Grant Requested: **$500,000.00** Cost Match: **$1,019,980.00** Total Project **$1,519,980.00**

This project would implement Phase II of removal and restoration of highly aggressive non-native plants within the floodplain of the lower American River. Following the successful implementation of Phase I, Phase II will focus on removing the following species from selected sites: french broom, scotch broom, pampas grass, cherry privet, glossy privet, tree-of-heaven, black locust, yellow starthistle and perennial pepperweed. Implemented as part of the Lower American River Task Force's River Corridor Management Plan, this project will result in the re-establishment of native plant populations, more efficient flow of seasonal floodwaters, reduced erosion and sediment reduction.

543 **Reclamation District No. 2084**
Egbert Tract Tidal Marsh Restoration Planning

Cooperating Entity 1: **SAFCA** Cooperating Entity 2: **Port of Sacramento**
Grant Requested: **$300,000.00** Cost Match: **$250,000.00** Total Project **$550,000.00**

This project is a feasibility study for the restoration of tidal marsh habitat at the Egbert Tract on the southernmost tip of the Yolo Bypass. It will include a site assessment of tidal hydrodynamics, sediment transport, flood hydraulics, target flora and existing adjacent biological values. Planning objectives, opportunities, and constraints will be defined in consultation with stakeholders, and a range of restoration concepts will be screened. A feasibility analysis will be done of the preferred alternative, including grading plan concepts, planting requirements, projection of habitat at different planning horizons, discussion of mitigation actions for drainage and flooding issues on adjacent areas, evaluation of construction issues, and analysis of project impacts on delta salinity. Finally, there will be a stakeholder involvement component amongst the affected agencies, the Yolo Bypass Working Group, and others.

544 **California State Parks Foundation**
YOSEMITE CHANNEL WETLAND RESTORATION PROJECT

Cooperating Entity 1: **California State Department of Parks and Recreation** Cooperating Entity 2: **0**
Grant Requested: **$200,000.00** Cost Match: **$0.00** Total Project **$200,000.00**

The project will restore 34 acres of tidal wetland within the Bayview-Hunters Point Area of the City of San Francisco on lands owned by the California State Department of Parks and Recreation (at Candlestick State Recreation Area). The funding request is to complete the final engineering plans and specifications, CEQA documentation, and permitting for the restoration project.

545 **Sustainable Conservation**
Reducing Runoff from Dairy Cropland Using Conservation Tillage

Cooperating Entity 1: **UC Davis** Cooperating Entity 2: **USDA-NRCS**
Grant Requested: **$545,000.00** Cost Match: **$40,000.00** Total Project **$585,000.00**

This is a demonstration project to control runoff from dairies in the San Joaquin drainage basin. Specifically, conservation tillage will be employed on up to a dozen dairies to assess water quality benefits and determine feasibility of widespread adoption. Water quality sampling will be performed and information documented. An outreach and education program to the larger dairy community will also be undertaken.

546 **Play and Learning in Adaptable Environments (PLAE) Inc.**
Watershed-Wise Schools: West Contra Costa Schools Watershed Pilot Projects & Outreach Program

Cooperating Entity 1: **West Contra Costa Unified School District** Cooperating Entity 2: **National Park Service**
Grant Requested: **$1,507,000.00** Cost Match: **$310,000.00** Total Project **$1,817,000.00**

PLAE and their partners will integrate a multi-faceted watershed stewardship program with on-the-ground implementation projects to improve water quality and reduce peak flows for schools and communities of the West Contra Costa Unified School District. By fostering partnerships between the schools and their communities, as well as with on-going watershed education efforts, this project will offer short-term watershed enhancement and long-term stewardship ethics for an entire region in underserved communities in the Bay Area.

547 **State Coastal Conservancy**
Napa-Sonoma Marsh Restoration Project

Cooperating Entity 1: **California Dept of Fish and Game** Cooperating Entity 2: **U.S. Army Corps of Engineers**
Grant Requested: **$1,610,000.00** Cost Match: **$16,380,000.00** Total Project **$17,990,000.00**

The goal of the Napa-Sonoma Marsh Restoration Project is to reduce and manage salinity in the 11 salt ponds in the North Bay, and restore a mosaic of wetland habitats, including tidal habitats for endangered species, fish, and aquatic species, and managed ponds for migratory waterfowl and shorebirds. The outcomes will be: (1) the improvement of water management in the salt ponds, preventing the risk of a high-saline discharge and associated impacts to fish migration and estuarine habitat in the case of an unintentional levee breach, and (2) the long-term addition of 3,045 acres of tidal habitats along the Napa River when Ponds 3, 4, and 5 are restored to tidal

548 **Westlands Water District**
Panoche/Silvercreek Flood Control Project

Cooperating Entity 1: **City of Mendota** Cooperating Entity 2: **0**
Grant Requested: **$800,000.00** Cost Match: **$0.00** Total Project **$800,000.00**

A planning and study project that will culminate with a stakeholder driven plan to control flooding, erosion and sediment removal. The express prupose being to improve water quality in the Delta, Mendota Pool, Fresno Slough and the San Joaquin River. The goal is achieved by diverting the flood/storm run-off and not allowing it to flow into the San Joaquin River, with a side benefit of providing the city of Mendota flood protection.

549 **Westlands Water District**
Groundwater Desalintion Project - Demonstration Treatment Plant and Feasibility Study

Cooperating Entity 1: **City of Mendota** Cooperating Entity 2: **0**
Grant Requested: **$669,186.00** Cost Match: **$42,842.00** Total Project **$712,028.00**

Westlands Water District, the City of Mendota, and U.S. Filter Operations Services wish to conduct a feasibility study for treating shallow groundwater for the purpose of supplying Mendota with an M&I water supply. The study will examine the economic feasibility of providing treated groundwater to Mendota for M&I use through either direct delivery of the treated water or an exchange of treated groundwater for surface water that would be treated and delivered to Mendota. Additionally, the study would evaluate alternatives for concentrate dispoal including beneficial use on farm.

550 **University of California Santa Barbara**
A Library and Culture-Independent Approach for Detecting Sewage and Septage in Coastal California

Cooperating Entity 1: **Santa Barbara County** Cooperating Entity 2: **0**
Grant Requested: **$572,947.00** Cost Match: **$0.00** Total Project **$572,947.00**

This project addresses the serious need for improved methods for discovering the presence and origin of human waste in coastal waters which is of interest to California statewide. We will determine the bacterial DNA signatures that are unique markers of human sewage and septage, and demonstrate the use of these markers for tracing the source of human waste in coastal waters. In contrast to conventional indicator assay approaches, this new approach will be accurate, independent of culturing, independent of a library, and will lead to rapid, reliable water testing which could be integrated into TMDL frameworks.

551 **County of Riverside**
San Jacinto Watershed Improvement and Protection Program

Cooperating Entity 1: **Riverside County Flood Control District** Cooperating Entity 2: **San Jacinto Watershed Project**
Grant Requested: **$3,098,000.00** Cost Match: **$3,027,000.00** Total Project **$6,125,000.00**

The County and its partners propose to improve water quality in the San Jacinto River by developing a comprehensive program to identify sources of pollutants, develop management practices to control pollutants, and control land use in the area to minimize future degradation.

552 **Contra Costa Community Development Department (on behalf of the Contra Costa Watershed Forum)**
Contra Costa County Creek Wetland and Impervious Surface Mitigation Coordination Program

Cooperating Entity 1: **Contra Costa County Water Conservation and Flood District** Cooperating Entity 2: **0**
Grant Requested: **$300,000.00** Cost Match: **$53,000.00** Total Project **$353,000.00**

This project will improve the quality, effectiveness and efficiency of the habitat mitigation process in Contra Costa County through coordination of potential restoration projects and available mitigation funds from small construction projects. A database of restoration projects will serve as a tool to coordinate these efforts, and a County managed trust account will collect small mitigation payments to spend on projects large enough to be ecologically meaningful. Projects receiving these aggregated funds would be selected from the County's Creek and Wetland Enhancement Projects Database based on a number of ecological, geographical and organizational criteria.

553 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Cabrillo Beach Shoreline Water Quality Mitigation Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$4,000,000.00** Cost Match: **$1,000,000.00** Total Project **$5,000,000.00**

This project will develop, design, build, and implement programmatic and technical measures that will mitigate the poor water quality that persists at Cabrillo Beach. Currently, Cabrillo Beach frequently exceeds the recreational water contact standard (REC-1) and has consistently received an "F" rating for water quality from Heal the Bay.

554 **Santa Monica Bay Restoration Foundation (SMBRF)**
Building Local Community Capacity to Implement a Comprehensive Watershed Management Plan in Ballona Creek Watershed

Cooperating Entity 1: **Los Angeles County Department of Public Works** Cooperating Entity 2: **City of Los Angeles Watershed Protection Division**
Grant Requested: **$220,000.00** Cost Match: **$6,000.00** Total Project **$226,000.00**

The objective of this project is to build local community capacity for implementing a comprehensive watershed management plan for the Ballona Creek watershed, the largest drainage tributary to Santa Monica Bay. The project will be accomplished primarily through bringing on-board a watershed coordinator, and also through enlisting the assistance of local community liaisons/patrons and necessary consulting services, to facilitate the financing and coordination of the restoration efforts by governmental agencies, local jurisdictions, community groups, as well as other stakeholders

556 **Monterey County Water Resources Agency**
Implement TMDL and Nitrate Management Education in Monterey County

Cooperating Entity 1: **USDA Natural Resources Conservation Services** Cooperating Entity 2:**0**
Grant Requested: **$279,000.00** Cost Match: **$186,000.00** Total Project **$465,000.00**
To implement an education and outreach program for nutrient manangment and TMDL's in Monterey County, plus perform monitoring activities that will measure the succcess of the project.

557 **Friends of Shipley Nature Center**
Watershed protection and habitat restoration for Blackbird Pond and Shipley Nature Center

Cooperating Entity 1: **City of Huntington Beach** Cooperating Entity 2:**Bolsa Chica Conservancy**
Grant Requested: **$400,000.00** Cost Match: **$100,000.00** Total Project **$500,000.00**
Friends of Shipley Nature Center will remove invasive non-native plants from the 18-acre Shipley Nature Center in Huntington Beach Central Park and restore and enhance the area with native plants in six habitat types: wetland/willow, riparian woodland, oak woodland, Torrey pine forest, coastal sage scrub, and meadows. In addition, a 300-ft recirculating stream will be added to Blackbird Pond to provide aeration, improve water quality, and add an interpretive feature to the educational program. Bare slopes will be stabilized with native plants to control erosion into the pond and provide wildlife habitat. A 200-ft intermittent stream fed by stormwater runoff with be stabilized and enhanced with two detention ponds to clean the runoff before it enters the pond. The Friends will create three vernal pools to provide potential habitat for endangered fairy shrimp. Twenty-three Species of Special Concern currently use the site, including Western Pond Turtle and 4 endangered bird species.

558 **San Diego State University Foundation Santa Margarita Ecological Reserve**
Habitat Restoration in the Santa Margarita Watershed

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$739,431.00** Cost Match: **$0.00** Total Project **$739,431.00**
The objective of the Santa Margarita Ecological Reserve Habitat Restoratin Project is to restore eight acres of abandoned avocado groves in the Santa Margarita Watershed. This project area has been targeted for restoration by regional planning efforts and will create wildlife habitat, preserve a habitat connection of regional significance, improve water quality, and disseminate information about restoration of avocado groves.

559 **High Sierra Resource Conservation and Development Council**
West Rim Watershed Stewardship Project

Cooperating Entity 1: **Sierra Forest Communities Institute** Cooperating Entity 2:**Sierra Economic Development District**
Grant Requested: **$935,000.00** Cost Match: **$0.00** Total Project **$935,000.00**
The West Rim Watershed Stewardship Project will demonstrate a unique approach to addressing watershed threats posed by urbanization, riparian habitat degradation and catastrophic wildfire. Specifically, this project will maintain working forestlands in the urban/wildland interface, restore riparian habitat, enhance upland habitat and reduce hazardous fuels on public and private land in the North Fork of the American River.

560 **Lake Elsinore & San Jacinto Watersheds Authority (LESJWA)**
Old San Jacinto River Rehabilitation

Cooperating Entity 1: **City of Lake Elsinore** Cooperating Entity 2:**Elsinore Valley Municipal Water**
Grant Requested: **$2,879,000.00** Cost Match: **$719,750.00** Total Project **$3,598,750.00**
This project would consist of providing facilities necessary to pump water from Lake Elsinore to the dry riverbed, lining the old San Jacinto Riverbed to prevent percolation and planting of native plant species. This would allow for recycling of Lake-water and the recycled water through the river to the existing wetlands and the reestablishment of the natural riparian & riverine habitat for the remaining mile of the San Jacinto River.

561 **Lake Elsinore & San Jacinto Watersheds Authority (LESJWA)**
Lake Elsinore Phosphorus Removal Treatment Facility

Cooperating Entity 1: **City of Lake Elsinore** Cooperating Entity 2:**Elsinore Valley Municipal Water**
Grant Requested: **$5,000,000.00** Cost Match: **$1,300,000.00** Total Project **$6,300,000.00**
This project would consist of providing facilities necessary to remove phosphorus from recycled water from Elsinore Valley Muncipal Water Ditricts Regional Water Reclamation Plant and Eastern Municipal Water Ditricts recycled water system and distribution to Lake Elsinore.

562 **Lake Elsinore & San Jacinto Watersheds Authority (LESJWA)**
Lake Elsinore Back Basin Wetlands

Cooperating Entity 1: **City of Lake Elsinore** Cooperating Entity 2:**Elsinore Valley Municipal Water**
Grant Requested: **$5,000,000.00** Cost Match: **$4,000,000.00** Total Project **$9,000,000.00**
The Lake Elsinore and San Jacinto Watershed Authority (LESJWA) is evaluating a conceptual approach to supply supplemental water to offset deficiencies in the amount of natural runoff that reaches Lake Elsinore. As part of this evaluation, LESJWA is considering the use of constructed treatment wetlands to reduce phosphorus concentrations in the lake. The proposed project would include the reconfiguration of the existing 356-acre Back Basin wetlands into treatment wetlands, and could be utilized to remove phosphorus from two different water sources: Reclaimed water from the local wastewater treatment plants, and water within the lake.

563 **Santa Ana Watershed Project Authority (SAWPA)**
Santa Ana River Watershed Regional Perchlorate Study

Cooperating Entity 1: **Upper Santa Ana Water Resources Association (USAWRA)** Cooperating Entity 2: **Association of Groundwater Agencies (AGWA)**

Grant Requested: **$975,000.00** Cost Match: **$0.00** Total Project **$975,000.00**

This study targets the issue of perchlorate contamination in the groundwater supplies of the Upper Santa Ana River Watershed. This study proposes a regional study to examine the extent and impacts of perchlorate throughout the Santa Ana River Watershed. This study would provide for a holistic approach to characterizing current and future problems associated with perchlorate in the watershed. The objective of this study is to develop a groundwater model to assess the extent and magnitude of perchlorate contamination on groundwater resources in the Santa Ana River Watershed.

564 **Santa Ana Watershed Project Authority (SAWPA)**
Canyon Lake and Lake Elsinore Lake Monitoring and Modeling

Cooperating Entity 1: **Lake Elsinore & San Jacinto Watersheds Authority (LESJWA)** Cooperating Entity 2: **San Jacinto River Watershed Council (SJRWC)**

Grant Requested: **$790,000.00** Cost Match: **$0.00** Total Project **$790,000.00**

The purpose of the study will be to conduct monitoring and lake modeling analysis to characterize in-lake water quality conditions and external loadings sources to support the simulation of hydrodynamic and water quality related processes in Lake Elsinore and Canyon Lake. This work supports the nutrient and pathogen TMDL development effort for the Lake Elsinore and Canyon Lake through the development of a detailed monitoring program for the lakes. The data collected would then be used to develop a sophisticated model of the Lakes to evaluate the relationship between external pollutant loading and in-lake water quality for both Canyon Lake and Lake Elsinore.

565 **Santa Ana Watershed Project Authority (SAWPA)**
San Jacinto Watershed BMP Implementation

Cooperating Entity 1: **U.S. Army Corps of Engineers (US ACE)** Cooperating Entity 2: **Lake Elsinore & San Jacinto Watersheds Authority (LESJWA)**

Grant Requested: **$1,005,000.00** Cost Match: **$1,005,000.00** Total Project **$2,010,000.00**

This project proposes to develop BMP implementation projects in the San Jacinto Watershed. It builds upon and supports the Regional Board's on going TMDL development effort in the watershed. The BMPs developed through this project would reduce excess nutrient and pathogen loadings from stormwater runoff for various land use practices to protect water quality in both Canyon Lake and Lake Elsinore.

566 **San Francisco Estuary Institute**
Potential Endocrine Disruption and Chronic Toxicity of Pyrethroids (including Deltamethrin) Carbamates Imidacloprid and Piperonyl Butoxide on Critical Aquatic Organisms

Cooperating Entity 1: **University of California Davis** Cooperating Entity 2: **AXYS Analytical Ltd.**

Grant Requested: **$570,700.00** Cost Match: **$0.00** Total Project **$570,700.00**

The purpose of this project is to develop and evaluate new chemical methods to measure pyrethroids (including deltamethrin), carbamates, imidcloprid, and piperonyl butoxide at environmentally relevant concentrations (low ppt). Pesticides in freshwater discharge are diluted in the San Francisco Estuary to concentrations that are often below the method detection limits of current use instrumentation (GC-MS) but above toxicity thresholds. New instruments (LC/MS) and HRGC-HRMS) that are designed to detect organics at low ppt levels will be used for the new methods development. Ambient water and sediment samples collected from the San Francisco Estuary and surrounding urban creeks will be evaluated for potential toxicity using indigenous invertebrates, (Chironomous tentans), as well as a native fish species, Sacramento perch (Archoplites interruptus).

567 **Regents of the University of California**
Assessment/Implementation of Best Management Practices to Reduce Nutrient Loads from Cropland to Lake Elsinore and Canyon Lake

Cooperating Entity 1: **Riverside County Farm Bureau** Cooperating Entity 2: **San Jacinto River Watershed Council**

Grant Requested: **$847,900.00** Cost Match: **$83,000.00** Total Project **$930,900.00**

The proposed project is designed to assess and implement BMPs through outreach education to reduce N and P loads from cropland to Lake Elsinore and Canyon Lake, where the RWQCB is currently developing TMDLs. Water quality improvement will be measured by on-site monitoring of the BMP treatments and existing in-stream and lake TMDL data.

568 CITY OF CATHEDRAL CITY
CATHEDRAL CITY COVE SEPTIC SYSTEM ELIMINATION PROJECT PHASE TWO (2)

Cooperating Entity 1: **Desert Water Agency (DWA)** Cooperating Entity 2: **Coachella Valley Water District (CVWD)**
Grant Requested: **$3,998,395.00** Cost Match: **$997,599.00** Total Project **$4,995,994.00**

Septic tank usage in the Cove area within Cathedral City will be eliminated through the construction of a municipal sewage system. The proposed project is Phase Two (2) of four phases required to complete the sewer system. California State law AB 358 mandates that septic tank usage be eliminated in the Cove area by 2012. This project is a priority for Region 7 and is listed as a priority in Region 7's Watershed Management Initiative Strategic Plan. Phase Two (2) will eliminate 464 on-site disposal systems (OSDS). Ultimately the four phased project will eliminate 1,492 OSDS in the Cove area. Phase One has already been funded and in 1999 a pumping station was built to serve planned in the Cove. Phase Two (2) will provide long term protection of groundwater resources in the Cove watershed region and reduce groundwater pollution from very old and poorly maintained septic tanks.

569 CITY OF CATHEDRAL CITY
CATHEDRAL CITY DREAM HOMES NEIGHBORHOOD SEPTIC ELIMINATION PROJECT -Phase One (1)

Cooperating Entity 1: **Desert Water Agency (DWA)** Cooperating Entity 2: **Coachella Valley Water District (CVWD)**
Grant Requested: **$848,300.00** Cost Match: **$149,700.00** Total Project **$998,000.00**

Septic tank usage in the Dream Homes neighborhood in Cathedral City will be eliminated through the construction of a municipal sewage system. The sewer system will ultimately replace 602 septic tanks in one of the oldest and most economically distressed neighborhoods in Cathedral City and in the Coachella Valley. Providing sewers will improve water quality and reduce pollutants to the Coachella Valley aquifer as many of the septic tanks are over 40 years old and poorly maintained. This project will also provide revitalization and economic justice for the Dream Homes neighborhood which is primarily Latino and bllighted. The majority of homes in the neighborhood are owner/occupied. The City, with resident support, is actively pursuing a comprehensive improvement program for the Dream Homes which includes the elimination of on-site disposal systems.(OSDS). This project is phase one of four phases.

570 Ecological Farming Association
San Joaquin River Basin Sustainable Agriculture Education Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$250,000.00** Cost Match: **$0.00** Total Project **$250,000.00**

The Ecological Farming Association proposes a 3-year Sustainable Agriculture Education Project, including 6 farming conferences targeted for Merced, Stanislaus and San Joaquin Counties. The goal of the project is that target growers implement sustainable soil fertility and pest management practices that meet economic and management requirements while reducing environmental impacts, particularly pollution of ground and surface water sources. The objective of the project is to build a sustainble agriculture learning comunity among target growers by bringing them together to learn about the tools, techniques, and resources available to help them make responsible production decisions for themselves and for the environment, thereby contributing to the project goal.

571 City of Redlands
San Timoteo Creek Aquatic Restoration and Habitat Conservation Project

Cooperating Entity 1: **Calif. St. Univ. San Bern. Water Resource Institute** Cooperating Entity 2: **Riverside Land Conservancy**
Grant Requested: **$5,000,000.00** Cost Match: **$7,475,000.00** Total Project **$13,600,000.00**

This project consists of watershed conservation, habitat maintenance, restoration and development, and streambed stabilization for San Timoteo Creek and its associated upland areas. The San Timoteo Canyon and Creek are one of the last remaining, largely undisturbed riparian and creekbed systems in the Riverside/San Bernardino County Area. This project seeks to extend initial conservation efforts by individuals, non-government entities, County governments, and the State of California.

572 San Andreas Land Conservancy
Development of Waddell Creek as an Ecological Reference Watershed for the Coastal Streams of the Santa Cruz Mountains

Cooperating Entity 1: **Aquatic Bioassessment Lab Dept. of Fish and Game** Cooperating Entity 2: **Inventory Monitoring & Assessment Program CA Parks & Recreation**
Grant Requested: **$384,750.00** Cost Match: **$60,000.00** Total Project **$444,750.00**

Our project will develop an aquatic bioassessment of Waddell Creek through Big Basin Redwood State Park using a stratified probabilistic sampling design to identify conditions existing in the watershed before the initiation of anthropogenic activities. Logging has impacted the coastal watersheds of Northern California to the extent that pre-cut stream conditions are no longer apparent, this project would provide an bench mark, ecological reference and time series for the assessment and restoration of coastal watersheds for coho and steelhead in the Santa Cruz Mountains. We will include an analysis of data from surrounding watersheds in Region 3 and Region 2 within the Santa Cruz Mountains to provide a regional context for environmental processes critical to fish and wildlife.

573 **Riverview Water District**
San Diego River Park - Restoration and Recharge - Phase II

Cooperating Entity 1: **San Diego River Park - Lakeside Conservancy** Cooperating Entity 2: **San Diego River Park Foundation**
Grant Requested: **$1,100,000.00** Cost Match: **$12,139,000.00** Total Project **$13,239,000.00**

The project is part of a 125 acre restoration, flood control and recharge project along the San Diego River as part of the San Diego River Park in Lakeside. The grant request is to provide the funding to remove approximately 60 acres of industrially zoned fill, to allow for widening of the river for recharge, trasitory storage, habitat restoration and vegetative treatment.

574 **San Mateo County Public Health and Environmental Protections Division**
Identification and Removal of Fecal Sources of Recreational Water Contamination in San MateoCounty

Cooperating Entity 1: **City of San Mateo** Cooperating Entity 2: **San Mateo County Farm Bureau**
Grant Requested: **$380,000.00** Cost Match: **$57,000.00** Total Project **$437,000.00**

This project will characterize the fecal contamination problem identified in several recreatioal water bodies in San Mateo County that have been proposed for listing as impaired by coliform bacteria pursuant to section 303(d) of the Clean Water Act. The project will facilitate targeted action on elimination of controllable sources of pathogens by the local authorities and maintain water quality over the long term through effective preventive measures. The project may reduce or eliminate contamination problems in advance of the schedule for development and implementation of total maximum daily loads (TMDL) .

575 **Save Our Shores**
Clean Harbors NPS Pollution Assessment & Prevention Project

Cooperating Entity 1: **Santa Cruz Port District** Cooperating Entity 2: **California Coastal Commission**
Grant Requested: **$401,235.00** Cost Match: **$71,000.00** Total Project **$472,235.00**

The Clean Harbors NPS Pollution Assessment and Prevention Project will monitor and analyse the efficacy of current and installed water runoff management systems at the Santa Cruz Harbor. This research equipment testing water quality monitoring, and project process can be used by California's 583 marinas to develop effective NPS pollution control measures.

576 **City of Calabasas**
Green Map and Watershed Awareness Campaign

Cooperating Entity 1: **City of Agoura Hills** Cooperating Entity 2: **City of Westlake Village**
Grant Requested: **$250,000.00** Cost Match: **$81,000.00** Total Project **$331,000.00**

This concept proposal seeks to develop a "Green Map," illustrating and encouraging preservation of natural resources of the Malibu Creek Watershed and surrounding areas. To complement the Green Map, a watershed awareness campaign will be launched to further educate local residents and create recognition and pride in the watershed.

577 **I Love A Clean San Diego Inc.**
Pollution Prevention Education and Stewardship Program (P2ESP)

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$250,000.00** Cost Match: **$165,500.00** Total Project **$415,500.00**

I Love A Clean San Diego's Pollution Prevention Education and Stewardship Program will engage and involve the community in watershed education, protection and stewardship. This interactive educational program will empower the community to protect, cleanup and restore San Diego County's Watersheds. I Love A Clean San Diego will: educate the community about pollution prevention and the hydrologic cycle by creating and presenting a San Diego County-specific Watershed Model; create an Adopt-A-Creek Program in which ILACSD will provide service learning activities for community members to cleanup and restore estuarine and inland waterways; provide stormdrain stenciling resources and activities for community volunteers; and promote the program through a variety of media.

578 **San Diego River Park Foundation**
Restoring Biofiltration Capabilities in Mission Valley

Cooperating Entity 1: **City of San Diego** Cooperating Entity 2: **0**
Grant Requested: **$2,500,000.00** Cost Match: **$500,000.00** Total Project **$3,000,000.00**

This project is to remove concrete and other "engineered" devices from coastal canyon drainages within the San Diego River Watershed and to replace them with biofiltration devices and to enhance or restore native habitat within these drainages. The lower San Diego River was recently placed on the 303d list as an impaired water body for a variety of constituents of concern, the primary source of these constituents is urban runoff. A public education component has been included with the goal of influencing behavior which contributes to these runoff problems.

579 **San Diego River Park Foundation**
Riparian Habitat Enhancement Strategic Plan

Cooperating Entity 1: **County of San Diego** Cooperating Entity 2: **0**
Grant Requested: **$158,000.00** Cost Match: **$2,000.00** Total Project **$160,000.00**

This project will complete the mapping of exotic pest plants within the San Diego River Watershed, below El Capitan and San Vincente Reservoirs. This mapping will be used to develop a strategic and comprehensive plan for removal of these non-native plants and to restore the natural functions of these imporant riparian corridors.

580 **Ducks Unlimited Inc**
Sacramemto Valley Water Quality Improvement Program

Cooperating Entity 1: **Northern California Water Association** Cooperating Entity 2: **Coalition for Urban/Rural Environmental Stewardship (CURES)**

Grant Requested: **$4,956,477.00** Cost Match: **$0.00** Total Project **$4,956,477.00**

This project proposes to improve the water quality of the Sacramento River, (303(d) listed for diazinon) and its tributaries. This project is submitted in conjunction with unique sub-watershed grants from the Colusa Basin, Butte/Sutter Basins, Feather River Basin, Yolo/Solano Basin and the Shasta-Tehama Basin and is providing an overarching effort to coordinate and facilitate a consistent, technical and scientifically sound implementation program to address contamination of irrigated runoff in each of the sub-watersheds, especially pesticides.

581 **Sustainable Conservation**
Central Valley Training for BMP related Permit Coordination in Priority Watersheds

Cooperating Entity 1: **Natural Resources Conservation** Cooperating Entity 2: **East Merced Resource Conservation District**

Grant Requested: **$780,000.00** Cost Match: **$0.00** Total Project **$780,000.00**

The project will train and mentor watershed stewards (including RCD staff and watershed planners) and regulatory agency staff to use the tools and techniques of permit coordination to encourage implementation of voluntary conservation practices by farmer, ranchers and landowners in the CALFED solution area. It will build on our prior success in the Central Coast and our ongoing work and relationships with state and federal regulators. The project will be tailored for individual watershed conditions and will build the capacity of indivduals and groups doing bmps on working landscapes.

582 **Sustainable Conservation**
Klamath/Modoc Training for BMP related Permit Coordination in Priority Watersheds

Cooperating Entity 1: **Natural Resources Conservation** Cooperating Entity 2: **Shasta CRMP**

Grant Requested: **$580,000.00** Cost Match: **$0.00** Total Project **$580,000.00**

The project will train and mentor watershed stewards (including RCD staff and watershed planners) and regulatory agency staff to use the tools and techniques of permit coordination to encourage implementation of voluntary conservation practices by farmer, ranchers and landowners in the Klamath-Modoc area. It will build on our prior success in the Central Coast and our ongoing work and relationships with state and federal regulators. The project will be tailored for individual watershed conditions and will build the capacity of indivduals and groups doing bmps on working landscapes.

583 **Calaveras County Water District**
CALAVERAS RIVER WATERSHED MANAGEMENT PROGRAM PHASE III IMPLEMENTATION

Cooperating Entity 1: **Stockton East Water District** Cooperating Entity 2: **0**

Grant Requested: **$360,000.00** Cost Match: **$40,000.00** Total Project **$400,000.00**

The project is Phase III, Implementation, Calaveras River Watershed Management Plan. The program includes (1) Initial CEQA assessment, (2) Stakeholder program, (3) Development of an action plan, (4) Water quality monitoring (5) Feasibility study for two stream restoration programs, and (6) addresses drinking water issues identified in February 2001 Calaveras River Sanitary Survey

584 **CITY OF PACIFICA**
DIVERSION OF STORM WATER TO TREATMENT WETLANDS

Cooperating Entity 1: **SAN PEDRO CREEK WATERSHED COALITION** Cooperating Entity 2: **0**

Grant Requested: **$640,000.00** Cost Match: **$560,000.00** Total Project **$1,200,000.00**

This project proposes to divert polluted storm water runoff away from discharge into the San Pedro Creek (an impaired water body) and instead into treatment wetlands; implement a sewer lateral inspection and replacement program; educate and mobilize citizens about water quality problems in the San Pedro Creek Watershed.

585 **California State and Consumer Services Agency**
Stormwater Management For California State Government Construction Projects

Cooperating Entity 1: **Department of General Services** Cooperating Entity 2: **University of California Merced**

Grant Requested: **$1,275,000.00** Cost Match: **$225,000.00** Total Project **$1,500,000.00**

This project, in collaboration with the Sustainable Building Task Force, will develop stormwater best management practices for state construction projects in collaboration with local entities where the state builds faciltities. Implement these BMPs in demonstration projects throughout the state and provide training and associated materials to state & local government employees, as well as private entities that conduct business with the state to disseminate information as developed. Finally, this project will evaluate the environmental and economic impact(s) of these practices.

586 **East Bay Municipal Utility District**
Mokelume River Watershed Protection and Monitoring Project

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$670,000.00** Cost Match: **$105,000.00** Total Project **$775,000.00**

The project consists of two distinct elements: upgrades to the monitoring system in the collection systems which surround Lake Pardee and Lake Camanche and upgrades to a sanitary sewer lift station at the Pardee Recreation Area, which has a high potential to discharge raw sewage directly to Lake Pardee. The proposed upgrades will allow EBMUD to actively monitor its system and prevent the drinking water quality degradation as a result of sanitary sewer overflows.

587 **Mt. View Sanitary District**
McNabney Marsh Management Enhancement Projects

Cooperating Entity 1: **Contra Costa Mosquito and Vector Control District** Cooperating Entity 2:**California Department of Fish and**
Grant Requested: **$1,140,000.00** Cost Match: **$0.00** Total Project **$1,140,000.00**

Two projects will be performed to increase the wildlife habitat of McNabney Marsh through improved water control. Enlarge a culvert that runs under a railroad right-of-Way to open a bottleneck that restricts tidal flow into and out of the marsh. Second, seal levees along Peyton Slough with a plastic seal to prevent uncontrolled water entry through rodent burrows.

588 **Santa Clara Valley Water District**
Technical Assistance for the Implementation of the Santa Clara Basin Watershed Management Initiative's Watershed Action Plan

Cooperating Entity 1: **Santa Clara Basin Watershed Management Initiative** Cooperating Entity 2:**0**
Grant Requested: **$200,000.00** Cost Match: **$95,000.00** Total Project **$295,000.00**

This is a two-year project to provide the following technical assistance elements:1. Coordination of Watershed Action Plan implementation efforts among local entities and outreach to stakeholders2. Support to local watershed councils3. Coordination and support towards the development of watershed health and watershed planning indicators, as measures of success.

589 **San Elijo Lagoon Conservancy (SELC) on Behalf of the Carlsbad Watershed Network (CWN)**
RESTORATION OF RIPARIAN/WETLANDS HABITAT IN THE CARLSBAD HYDROLOGIC UNIT (HU A145904.00)

Cooperating Entity 1: **Natural Reserve System UCSD** Cooperating Entity 2: **Complete contact list includes: 9 NGOs 7 cities 1 county**
Grant Requested: **$4,900,000.00** Cost Match: **$0.00** Total Project **$4,900,000.00**

Implement a major riparian/wetland habitat restoration project in the 7 303(d) impaired watersheds of the Carlsbad Hydrologic Unit as identified in the Carlsbad Watershed Managaement Plan (2002). The project will emphasize removal of invasive exotic plant species, test the efficacy of revegetation, monitor the treatment effectiveness, changes in water quality, ecosystem responses, and advance the experience and capacity of 9 NGOs to plan at the watershed level, but work at the subwatershed scale.

590 **Trout Unlimited**
Noyo River Watershed Restoration and Sedimentment Reduction Project

Cooperating Entity 1: **Mendocino Redwood Co.** Cooperating Entity 2:**Pacific Watershed Associates**
Grant Requested: **$801,031.00** Cost Match: **$446,306.00** Total Project **$1,247,337.00**

Project seeks funding for implementation of erosion control, sediment reduction and in-stream enhancement in three sub-basins of the Noyo River watershed. Over the past several years, detailed assessments have been completed to identify sediment sources that are degrading water quality and impacting salmonid habitat in the Noyo River and its tributaries. TMDL document has been completed, implementation plan is currently under development. Basin-wide watershed planning cooperation is well underway, with active community participation.

591 **Sacramento County Dept. of Water Resources**
Laguna Creek Watershed Program

Cooperating Entity 1: **Urban Creeks Council Sacramento Chapter** Cooperating Entity 2:**Elk Grove Community Services District/Southgate Rec & Park District**
Grant Requested: **$760,000.00** Cost Match: **$101,500.00** Total Project **$856,500.00**

Develop a watershed management plan for the upper and lower sections of the 50 square mile-Laguna Creek Watershed, to assess present conditions and recommend capital improvement projects (preservation, protection, enhancement) for implementation by the local agencies. Prepare and implement an open space management plan for a project along the creek corridor. Coordinate the continuation and expansion of a K-14 Watershed Stewardship Program inititated by the Elk Grove Unified School District. Implement a citizen monitoring program, including an "Adopt a Creek" element as well as regular training workshops to provide citizens with the information and tools they need to ensure good quality data. Implement Invasive Weed Removal Program.

594 **PANOCHE DRAINAGE DISTRICT**
SELENIUM AND NITRATE REMOVAL FROM AGRICULTURAL DRAINAGE

Cooperating Entity 1: **LAWRENCE BERKELEY NATIONAL LABORATORY** Cooperating Entity 2: **0**

Grant Requested: **$470,600.00** Cost Match: **$60,000.00** Total Project **$470,600.00**

Perform experiments using the Intermediate-Scale Algal-Bacterial Selenium Removal Facility to develop design criteria for full-scale (>10 acre-feet per day) treatment facilities.

595 **Family Water Alliance**
Study of the Socioeconomic Impacts as a Result of Conversion Agricultural Lands

Cooperating Entity 1: **Sacramento River Conservation Area Forum** Cooperating Entity 2: **0**

Grant Requested: **$450,115.00** Cost Match: **$0.00** Total Project **$450,115.00**

This proposal requests funding to conduct an in-depth economic analysis. This study will evaluate, assess, and analyze the socioeconomic impacts associated with the current trend of agricultural land acquisition and easement programs for the purpose of creating habitat and conservation areas in Shasta, Tehama, Butte, Glenn, Sutter, Colusa, and Yolo Counties, all which lie within the Sacramento River Watershed.

596 **Muir Heritage Land Trust**
Fernandez Ranch Riparian Restoration within the Rodeo Creek Watershed

Cooperating Entity 1: **Contra Costa County Flood Control District** Cooperating Entity 2: **Urban Creeks Council**

Grant Requested: **$250,000.00** Cost Match: **$250,000.00** Total Project **$500,000.00**

The Muir Heritage Land Trust is in the process of acquiring the 700 acre Fernandez Ranch in the Rodeo Creek Watershed. Approximately two miles of creek run through the property. There are sections of the creek that are in need of restoration due to over grazing and decades of deferred maintenance.

597 **Community Environmental Council**
Creek Watchers Stream Team & Watershed Resource Center

Cooperating Entity 1: **Santa Barbara Channel Keepers** Cooperating Entity 2: **UC Santa Barbara, LTER Project**

Grant Requested: **$389,405.00** Cost Match: **$539,470.00** Total Project **$928,875.00**

598 **University of California, Davis**
Aquatic Community Impacts of Land and Water Management in Sierra Nevada Watershed

Cooperating Entity 1: **South Yuba River CitizensLeague** Cooperating Entity 2: **Friends of Wolf Creek**

Grant Requested: **$582,450.00** Cost Match: **$0.00** Total Project **$582,450.00**

Investigators from UCD (Fraser Shilling and Randy Dahlgren) propose to study the causes and impacts of excessive algal and aquatic plant growth in the Feather, Yuba, Bear, American, and Cosumnes River Watersheds. Trained volunteer monitors will join UC Davis scientists in measuring in-Stream algal and plant growth, water qualit, and sampling for benthic macroinvertebrates and nutrients. We will identify potential causative factors for each basin and develop management recomendations for remediation in cooperation with technical advice from watershed groups in the project area.

599 **University of California Davis**
Development and Evaluation of the California Watershed Assessment Manual

Cooperating Entity 1: **Office of Environmental Health Hazard Assessment/CalEPA** Cooperating Entity 2: **California Dep't of Forestry and Fire Protection-FRAP Division/Resources**

Grant Requested: **$956,000.00** Cost Match: **$0.00** Total Project **$956,000.00**

The project team (UCD, OEHHA, and CDF) proposes to develop the "California Watershed Assessment Manual" for use by assessors of watershed condition in California. The Manual will aid with SWRCB and CALFED goals of increasing community capacity for involvement in watershed management and of having guidelines for science-based assessments. Our audience will be watershed groups, local, state, and federal agencies, academics, consultants, and private landowners. We will evaluate the performance of the Manual in at least 5 test watersheds in northern, central and southern California.

600 **Earth Systems Institute**
Lanscape Classification: A Basis for Managing Watershed Assesment, Restoration, and Monitoring

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$2,218,000.00** Cost Match: **$0.00** Total Project **$2,218,000.00**

This proposal outlines development of an Integrated Landscape – Riverscape Classification System based on erosion and hydrological domains, spatial and temporal variability of erosion, natural disturbance, and landscape topology. The classification system would be useful for (1) evaluating erosion from land management in context with erosion from natural disturbance, (2) classifying watersheds according to their inherent natural variability, with implications for feasibility of monitoring and restoration, and (3) providing context on how riverine habitats are fundamentally formed and the relative importance of small scale habitat forming processes that are more likely to be impacted by land use.

602 **San Gabriel Mountains Regional Conservancy (Regional Conservancy)**
SAN GABRIEL CANYON MASTER PLAN FOR RECREATION USE AND TRASH REDUCTION

Cooperating Entity 1: **U.S. Forest Service - Angeles National Forest** Cooperating Entity 2: **City of Azusa**
Grant Requested: **$794,000.00** Cost Match: **$8,775.00** Total Project **$802,775.00**

The San Gabriel Canyon Master Plan for Recreation Use and Trash Reduction will address water quality impacts resulting from 8 million visitors anually who recreate along the East, West, and North Forks and the main channel of the San Gabriel River as it flows through the Angeles National Forest and the City of Azusa in Los Angeles County. The East Fork of the San Gabriel River is listed on the 303(d) List as a high priority for trash and has an existing trash TMDL that will be addressed by this project. The project includes the following components: (1) recreation management plan for multiple user groups including recommended land use changes that improve water quality and protect habitat; (2) design and implement a trash management program at major impact areas; and (3) design and implement a public education effort to reduce trash and other impacts by all users including a Latino outreach campaign.

603 **San Gabriel Mountains Regional Conservancy (Regional Conservancy)**
WALNUT & SAN JOSE CREEK WATERSHEDS URBAN RUNOFF TREATMENT FEASIBILITY STUDY & PILOT PROJECTS

Cooperating Entity 1: **County of Los Angeles Department of Public Works** Cooperating Entity 2: **Los Angeles & San Gabriel Rivers Watershed Council**
Grant Requested: **$2,802,500.00** Cost Match: **$260,000.00** Total Project **$3,062,500.00**

This is a multiple-objective project with three components that will benefit water quality, water supply, habitat and approximately 1 million residents of two adjacent watersheds in eastern Los Angeles County. The first component involves a team of technical experts and planners who will investigate the technical feasibility for treating low-flow event stormwater runoff from the double watershed with a series of constructed treatment wetlands, based on models currently under development in southern California. As a result of this investigation, two pilot projects will be designed and built to demonstrate the capabilities of treatment wetlands, as well as a targeted outreach program called to these communities and specifically cities about the importance of the watersheds to their daily lives which will take place throughout the duration of the project.

604 **San Gabriel Mountains Regional Conservancy (Regional Conservancy)**
PROJECT CONNECT 2 LA VERNE: RESTORING CREEK-COMMUNITY CONNECTIONS IN THE SAN GABRIEL VALLEY

Cooperating Entity 1: **La Verne Land Conservancy** Cooperating Entity 2: **University of La Verne**
Grant Requested: **$867,000.00** Cost Match: **$140,000.00** Total Project **$1,007,000.00**

Project Connect 2 La Verne will evaluate land uses in the City of La Verne and Marshall, San Dimas, Live Oak, and Thompson Creeks to discover opportunities to improve water quality, habitat, and recreation. It will take a regenerative management approach to: (1) identify a citywide strategy for creek restoration and potential BMP demonstration projects; (2) identify beneficial relationships among urban uses/design, water quality/supply, habitat, and recreation; (3) implement at least one BMP project to demonstrate nonpoint source pollution reduction with multiple benefits; (4) conduct intensive public involvement; and (5) develop public education materials and stewardship programs to achieve behavior changes that reduce nonpoint source pollution.

605 **San Gabriel Mountains Regional Conservancy**
PHASE II LITTLE DALTON CANYON ENVIRONMENTAL DISCOVERY CENTER AND EQUESTRIAN FACILITY

Cooperating Entity 1: **Glendora Community Conservancy** Cooperating Entity 2: **City of Glendora**
Grant Requested: **$1,657,000.00** Cost Match: **$366,500.00** Total Project **$2,023,500.00**

Phase II of the Discovery Center will provide a community-based facility for regional education and involvement on watershed management, regional natural resources, and urban and wildland interface issues. Funding is needed to design and construct site improvements that demonstrate water quality protection, enhanced water use efficiency and on-site water management, design sensitivity toward the surrounding environment, and energy efficiency. In addition, Phase II includes riparian habitat restoration and access improvements that protect and improve flow conditions Little Dalton Creek. (Phase I includes the design and construction of an equestrian facility that provides an integrated water quality protection design demonstration.)

607 **San Francisco Estuary Institute**
Regional stormwater Monitoring and Urban BMP Evaluation: A Stakeholder-Driven Partnership to Reduce Contaminant Loadings

Cooperating Entity 1: **Oakland Museum of California** Cooperating Entity 2: **Clean Estuary Partnership (CEP)**
Grant Requested: **$1,320,000.00** Cost Match: **$295,000.00** Total Project **$1,615,000.00**

San Francisco Bay is described as impaired for a range of contaminants including Hg and PCBs, both of which are persistent and bioaccumulates through the food chain impacting aquatic and human health. Stormwater loads have been identified as an important source of these sediment associated contaminants and therefore measure taken in local watersheds to reduce stormwater loads will help in attainment of water quality standards in the Bay. Presently there is very limited information on the effectiveness of implementation of measure designed to reduce loads yet the public are paying large sums of money to carry out non-point source controls. This project aims to improve our understanding of effectiveness of stormwater management and helps prioritize implementation of further efforts to improve water quality. Although it will be carried out in the Bay Area, it has wide applicability to the rest of California.

608 **San Francisco Estuary Institute**
Environmental Stewardship and Watershed Management in the Petaluma River Basin: Community Consultation Capacity Building and Multi-Objective Science and Planning

Cooperating Entity 1: **Petaluma Watershed Foundation** Cooperating Entity 2: **0**
Grant Requested: **$560,000.00** Cost Match: **$0.00** Total Project **$560,000.00**

The Petaluma River watershed is host to a number of endangered species of concern including steelhead and has areas of poor water quality that would benefit from improved measures to maintain or enhance water and environmental quality. The local residents are concerned that regulatory processes and agencies and efforts to improve the environment may reduce the profitability of businesses and agricultural interests. This project will further the goals of CALFED and take further steps towards creating consensus and develop a watershed management plan for the upper watershed that will include site-specific recommendations on areas and projects to improve beneficial uses.

609 **Contra Costa Water District**
CALFED Rock Slough and Old River Water Quality Improvements - Groundwater Seepage Management Project

Cooperating Entity 1: **Ironhouse Sanitary District** Cooperating Entity 2: **CALFED Dutch Slough Tidal Restoration Project**
Grant Requested: **$4,985,000.00** Cost Match: **$29,535,000.00** Total Project **$34,520,000.00**

The project implements source water quality improvements specified in the CALFED Record of Decision (ROD) and the objectives of the CALFED Drinking Water Quality Program. The project described in this proposal would stop non-point source pollution into a drinking water intake, help the State Water Project and Central Valley Water Project meet salinity standards in the Delta, and increase the operational flexibility of the SWP and CVP. This proposal is for the design, construction and construction related adminitrative costs to hydraulically isolate portions of the Contra Costa Canal.

610 **Mattole Restoration Council**
Mattole River and Range Partnership Implementation Phase

Cooperating Entity 1: **Mattole Salmon Group** Cooperating Entity 2: **State Coastal Conservancy**
Grant Requested: **$1,188,760.00** Cost Match: **$683,650.00** Total Project **$1,872,410.00**

The Mattole River and Range Partnership plans to implement a wide array of coastal water quality and salmonid habitat improvement projects in the Mattole River watershed, based on recommendations of the Mattole River Watershed Assessment Report produced by the North Coast Watershed Assessment Program. The Partnership will implement road upgrades, road decommissioning, estuary enhancement, refugia enhancement, sediment monitoring, water quality monitoring, landowner education and public school education projects to address these recommendations. The Partnership consists of five Mattole-based non-profits, cooperative private landowners, and state and federal agencies.

611 **San Francisco Estuary Institute**
Aquatic Pesticide Monitoring Program Implementation

Cooperating Entity 1: **California Department of Fish and Game Water Pollution Control Lab** Cooperating Entity 2: **University of Califorina Davis- Marine Pollution Control Lab**
Grant Requested: **$2,000,000.00** Cost Match: **$0.00** Total Project **$2,000,000.00**

This project proposes the extension and implementation efforts currently being undertaken by the State Water Resource Control Board (SWRCB) funded Aquatic Pesticide Monitoring Program (APMP).). The APMP has begun to develop methods and implement studies to determine the potential impacts of aquatic pesticide applications to waterbodies in CA. This proposed work builds upon and refines the techniques and efforts used and begun during the first two years of the APMP. It also seeks to transition the monitoring from the 'top-down' program implemented post-Talent to a self-sustaining program that provides useful high quality data without imposing onerous requirements on pesticide users. While significant advances have been made to this end, further work is needed to truly develop and implement methods most suitable to investigate potential impacts.

612 **Association of Bay Area Governments**
Wetland Design and Management Options for Control of Mercury in San Francisco Bay

Cooperating Entity 1: **(note: full list provided on narrative) Coastal Conservancy** Cooperating Entity 2: **Wetland Restoration Program**
Grant Requested: **$1,360,000.00** Cost Match: **$340,000.00** Total Project **$1,700,000.00**

The purpose of this project is to identify specific, practical measures to substantially reduce methylation of mercury in the Bay and to produce a Wetland Implementation Report (Report) that can be incorporated as an element for wetlands into the Board's Implementation Plan for the Bay mercury TMDL (Plan). Control measures developed in this project for Bay wetlands also may be applicable to wetlands elsewhere in California and may be suitable for incorporation into other mercury TMDL implementation plans.

613 **Los Angeles County Department of Beaches and Harbors**
SANTA MONICA BAY BEACHES TRASH PREVENTION PROJECT

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$765,000.00** Cost Match: **$135,000.00** Total Project **$900,000.00**

The project envisions the purchase of 3,600 covered beach trash cans throughout 21 public beaches (31 miles of coastline) in Los Angeles County. Covering trash cans prevents birds, vermin and rodents from access to refuse and shields it from the elements. This greatly reduces the incidence of animal waste, animal food by-products and/or human waste from entering the watershed and raising the coliform levels. Keeping trash concealed also encourages visitors to respect the coastal environment.

614 **Association of Bay Area Governments**
The Brake Pad Partnership

Cooperating Entity 1: **Bay Area Stormwater Mgt Agencies Assn Sustainable Conservation** Cooperating Entity 2:**Brake Manufacturers Council U.S. EPA**

Grant Requested: **$400,000.00** Cost Match: **$366,000.00** Total Project **$766,000.00**

The Brake Pad Partnership is a multistakeholder effort to understand the impacts on the environment that may arise from brake pad wear debris generated in the use of passenger vehicles. Working together, manufacturers, regulators, stormwater management agencies, and environmentalists are developing an approach to evaluate the potential for significant water quality impacts, using copper in the South San Francisco Bay as an example. Automobile brake pad manufacturers have committed to incorporating this evaluation approach into their existing practices for designing products that are safe for the environment while still meeting the performance requirements demanded of these important safety-related products.

615 **Association of Bay Area Governments**
Urban Pesticides Pollution Prevention Project (UP3 Project)

Cooperating Entity 1: **Urban Pesticides Committee** Cooperating Entity 2:**ABAG members (100 cities & 9**
Grant Requested: **$572,000.00** Cost Match: **$15,000.00** Total Project **$587,000.00**

The project supports implementation of the high-priority TMDL for Diazinon and Pesticide-Related Toxicity in San Francisco Bay Area Urban Creeks, following the approach (foster education, integrate science, seek proactive regulation) the RWQCB has proposed.

616 **City of Santee**
FORESTER CREEK IMPROVEMENT PROJECT

Cooperating Entity 1: **CalTrans** Cooperating Entity 2:**City of El Cajon**
Grant Requested: **$5,000,000.00** Cost Match: **$5,880,000.00** Total Project **$27,612,000.00**

Improving Forester Creek between Prospect Ave. and Mission Gorge Rd. (about 1.2 miles) increases it's flood-carrying capacity to contain the 100-year flow, improves water quality of the San Diego River watershed and the Forester Creek subunit, and reestablishes aquatic and terrestrial species habitats. Construction of a naturalized, widened and vegetated earthen channel (Exhibit A) satisfies water quality improvement and biological mitigation objectives, and will include sediment and debris collection facilities and a meandering low-flow channel, as well as realigning streets in the project area to improve traffic flows, and eliminating flooding on a vital east/west local/regional arterial, Mission Gorge Rd. The City is applying for a portion of the incremental difference in costs, $5 Million, attributable to the final design, the Modified Self Mitigating Channel, which was the project alternative recommended by the water agencies (this is more fully described in the application narrative).

617 **Institute for Fisheries Resources**
Strengthening Water Quality Restoration in the North Coast Region Through Use of the Klamath Resource Information System

Cooperating Entity 1: **Redwood Community Action Agency** Cooperating Entity 2:**various others**
Grant Requested: **$500,000.00** Cost Match: **$125,000.00** Total Project **$625,000.00**

Expansion of Klamath Resource Information System (KRIS) to Eel River, Mad River, and Humboldt Bay watersheds, updating of other KRIS projects with recent data, and nesting of projects in a single regional database to support water quality monitoring, assessment, and restoration. KRIS will be used to capture, organize, and disseminate information relevant to water quality and watershed conditions, including datasets, maps, photos, restoration plans, reports and other documents regarding geologic and vegetative conditions, land use, fish and wildlife populations, water quality, and stream channel conditions. KRIS will share information on CD and over the internet and allow updating of contents by various groups.

618 **Institute for Fisheries Resources**
Strengthening Water Quality Restoration in the San Francisco Bay Region Through Use of the Klamath Resource Information System

Cooperating Entity 1: **various** Cooperating Entity 2:**0**
Grant Requested: **$500,000.00** Cost Match: **$125,000.00** Total Project **$625,000.00**
Expansion of Klamath Resource Information System (KRIS) to watersheds of the region outside Marin and Sonoma counties, updating of other KRIS projects with recent data, and nesting of projects in a single regional database to support water quality monitoring, assessment, and restoration. KRIS will be used to capture, organize, and disseminate information relevant to water quality and watershed conditions, including datasets, maps, photos, restoration plans, reports and other documents regarding geologic and vegetative conditions, land use, fish and wildlife populations, water quality, and stream channel conditions. KRIS will share information on CD and over the internet and allow updating of contents by various groups.

619 **Cal Poly - San Luis Obispo**
EVENT-BASED SUSPENDED SEDIMENT MONITORING FOR EVALUATING CAUSE AND EFFECT ASSOCIATED WITH TIMBER MANAGEMENT ACTIVITIES

Cooperating Entity 1: **USDA Forest Service Pacific Southwest Research Station** Cooperating Entity 2:**0**
Grant Requested: **$148,000.00** Cost Match: **$146,000.00** Total Project **$294,000.00**
ABSTRACTThis study will document the level of suspended sediment monitoring necessary to assess cause and effect associated with timber harvesting activities. A main emphasis will be to evaluate alternative methods and levels of event monitoring that can produce statistically similar results in suspended sediment concentrations from extensive event-based sediment monitoring ongoing at the Caspar Creek and Little Creek Experimental Watersheds.

620 **Cal Poly - San Luis Obispo**
Evaluation of Event Based Suspended Sediment Export from Little Creek Swanton Pacific Ranch – Calibration of Preharvest Condition

Cooperating Entity 1: **USDA Forest Service Pacific Southwest Research Station** Cooperating Entity 2:**0**
Grant Requested: **$140,000.00** Cost Match: **$232,000.00** Total Project **$372,000.00**
ABSTRACTThe calibration of suspended sediment data from four monitoring stations on the Little Creek watershed will describe the pre-harvest sediment response (four years). This analysis is necessary for the evaluation of the effectiveness of current California forest practices to provide protection from adverse water quality impacts following harvesting operations that are slated to occur in 2006 in the Little Creek watershed.

621 **Cal Poly - San Luis Obispo**
Implementation and Evaluation of Management Measures and Practices in Reducing Nonpoint Source Pollution using a Paired Watershed Approach

Cooperating Entity 1: **Morry Bay National Estuary Program** Cooperating Entity 2:**Department of Fish and Game**
Grant Requested: **$292,000.00** Cost Match: **$112,000.00** Total Project **$404,000.00**
ABSTRACTThe calibration of suspended sediment data from four monitoring stations on the Little Creek watershed will describe the pre-harvest sediment response (four years). This analysis is necessary for the evaluation of the effectiveness of current California forest practices to provide protection from adverse water quality impacts following harvesting operations that are slated to occur in 2006 in the Little Creek watershed.

623 **City of Sacramento Department of Utilities**
Arcade Creek--Tackling the Impacts of Urbanization

Cooperating Entity 1: **County of Sacramento Department of Water Resources** Cooperating Entity 2:**City of Citrus Heights**
Grant Requested: **$890,000.00** Cost Match: **$190,000.00** Total Project **$1,080,000.00**
Provide support for the Arcade Creek Watershed Group enabling them to continue their assessment of the Arcade Creek watershed and implement high prioirty creek improvement projects including: watershed stakeholder education and outreach, development of a comprehensive watershed master plan, planning for and the removal of invasive vegetation along the creek, and construction of a water quality/wetland basin to treat runoff from a neighborhood within the watershed. The goals of the proposed project are to improve creek water quality and habitat so the creek can better achieve its ecological and recreational beneficial uses.

624 **Michael Barbour Tahoe Research Group and Department of Environmental Horticulture UC Davis**
Forest Nonpoint Source Pollutants and Implications for Management in the Lake Tahoe Basin

Cooperating Entity 1: **United States Forest Service** Cooperating Entity 2:**Tahoe Regional Planning Agency**
Grant Requested: **$294,939.00** Cost Match: **$82,400.00** Total Project **$377,339.00**
This project seeks to determine how runoff and nonpoint source pollutants (sediment, nitrogen, and phosphorus) differ between four forest management practices (related to intensity of tree harvesting) in the dominant forest type (white fir/mixed-conifer; ~50% of forested land) of the Lake Tahoe Basin. We plan to connect this project with current water quality monitoring and Total Maximum Daily Load development efforts specific to the Lake Tahoe Basin and its sub-watersheds. This project will contribute to the achievement of TMDL goals and Best Management Practice (BMP) implementation by developing appropriate predictive runoff and nonpoint source loading values from given forest management practices.

625 **City of Santa Ana**
Drainage System Treatment BMPs

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$437,700.00** Cost Match: **$77,350.00** Total Project **$515,050.00**
Evaluate and implement BMPs appropriate for the City of Santa Ana to be installed to reduce sediment and other pollutant discharges from selected areas of the City to sensitive watersheds.

626 **Alameda County Water District (ACWD)**
2003 Alameda Creek Watershed Anadromous Fishery Restoration Program

Cooperating Entity 1: **San Francisco Public Utilities Commission (SFPUC)** Cooperating Entity 2: **Alameda County Flood Control & Water Conservation Dist. (ACFC&WCD)**
Grant Requested: **$5,000,000.00** Cost Match: **$8,150,000.00** Total Project **$13,150,000.00**
As part of an on-going program to restore an anadromous fishery to Alameda Creek watershed, the largest local tributary to San Francisco Bay, this project is a multi-stakeholder effort to remove fish passage barriers and improve habitat in the Alameda Creek watershed. Funding for this project will complement funding already dedicated for the Alameda Creek watershed by the Corps of Engineers, Prop 13, California Fish and Game and local stakeholders and ensure that the stakeholders goal of restoring a viable steelhead run is achieved. This proposal attempts to coordinate the numerous activities that have to be undertaken to achieve the end goal of restoring fish runs, while still allowing for other beneficial uses of Alameda Creek, including recreation, flood control, and water supply operations..

627 **Solano Resource Conservation District**
Fostering Watershed Stewardship in Three Connected Watersheds

Cooperating Entity 1: **Dixon RCD** Cooperating Entity 2: **Yolo County RCD**
Grant Requested: **$379,172.00** Cost Match: **$97,949.00** Total Project **$477,121.00**
Solano Resource Conservation District (RCD), in partnership with Yolo County and Dixon RCDs and many others throughout the region will pilot two proactive watershed stewardship development projects in the Ulatis, Dixon and Putah Creek Watersheds in the Northern Sacramento Valley. One project will work with rural landowners to provide stewardship education and resources and the other with agricultural producers to create system-based farm conservation plans for their operations, providing both with resource management expertise, stewardship education and support to facilitate effective management practices across the three watersheds

628 **Resource Conservation District of Monterey County**
Implementation and Analysis of On-Farm Source Control and In-Stream Water Quality Restoration in the Lower Salinas Watershed

Cooperating Entity 1: **University of California Davis; Marine Pollution Studies Laboratory** Cooperating Entity 2: **Moss Landing Marine Laboratories**
Grant Requested: **$1,200,000.00** Cost Match: **$240,000.00** Total Project **$1,440,000.00**
The Lower Salinas watershed contains six 303(d) listed waterbodies that receive agricultural and urban non-point source runoff, and discharges to a State-designated estuarine Toxic Hot Spot (Moss Landing Harbor) and the Monterey Bay National Marine Sanctuary. This project will implement on-farm source control agricultural conservation projects and and in-stream water quality restoration to prevent and filter contaminated waters, improve water quality, and limit loading of contaminants. Activities will focus on project implementation and intensive evaluation of BMP effectiveness and in-stream monitoring, and will provide an analysis of monitoring strategies used throughout the State, in order to evaluate the use of monitoring data in adaptive management during TMDL

631 **Wishtoyo Foundation**
CALLEGUAS CREEK WATERSHED AGRICULTURAL NONPOINT SOURCE POLLUTION MITIGATION

Cooperating Entity 1: **Department of Pesticide Regulation** Cooperating Entity 2: **Ventura County Watershed Protection District**
Grant Requested: **$635,000.00** Cost Match: **$0.00** Total Project **$635,000.00**
This project shall implement and monitor the most efficient and cost effective measures to mitigate pesticide and nutirent pollution from agricultural discharge. This project reduces and/or removes chemical pesticides and synthetic fertilizers from agricultural practices and subsequent tailwater discharge while increasing both the nutritional and econmomical value of the crops. Implementation involves the conversion of conventional farming practices to organic practices, a hybrifd-conventional farming practice, and the capture of agricultural surface and subsurface discharge wastewaters.

632 **Nevada County**
Abandoned Mine Reclamation in the Bear River and South Yuba Watersheds

Cooperating Entity 1: **California Integrated Waste Management Board** Cooperating Entity 2: **U.S.D.A. Forest Service - Tahoe National Forest**
Grant Requested: **$498,000.00** Cost Match: **$0.00** Total Project **$498,000.00**
Reclamation of historic hydraulic mine sites to reduce erosion, improve water quality, reduce heavy metal discharges, revegetation and rehabilitate habitat . Involves some recontouring and other site preparation and the use of compost as a soil ammendment and follow up seedling and plantings. Mercury contamination remediation and monitoring.

633 **North East Trees (NET)**
Beverly Boulevard Recycling and Trash Cleanup Program

Cooperating Entity 1: **Clements Environmental/Sun Valley Paper Stock Inc.** Cooperating Entity 2: **Council District 13**

Grant Requested: **$499,709.00** Cost Match: **$94,515.00** Total Project **$594,224.00**

Beverly Boulevard Recycling and Trash Cleanup Program proposes to develop and artistically designed receptacles for trash and recycling materials on city streets, to develop and install educational signage about recycling, and to create a youth employment program to collect and monitor the trash and recycling materials.

634 **North East Trees (NET)**
Devil's Dip Creek Restoration and Daylighting

Cooperating Entity 1: **Los Angeles County Department of Parks and Recreation** Cooperating Entity 2: **Los Angeles County Department of Public Works Watershed Mgmt Div.**

Grant Requested: **$482,262.00** Cost Match: **$84,000.00** Total Project **$566,262.00**

About 2/3 of Devil's Dip Creek at the Chester Washington Golf Course is buried. The other 1/3 is impacted by trash, erosion, and invasive plant species. North East Trees will develop plans for the restoration of the entire extent of the creek within the golf course, including the buried portions, and to revegetate a portion of the currently above-ground creek. These plans will be permitted by the appropriate agencies and implemented. A monitoring and adaptive management phase will ensue to ensure the success of the project.

635 **North East Trees (NET)**
Stream Spirit Rising: The North Branch Creek

Cooperating Entity 1: **Council District 1** Cooperating Entity 2: **0**

Grant Requested: **$544,392.00** Cost Match: **$83,000.00** Total Project **$627,392.00**

Stream Spirit Rising proposes to daylight the North Branch Creek, engage in an extensive community and school outreach and education program, and provide up to 2 years' monitoring and adaptive management.

636 **Deer Creek Watershed Conservancy**
Deer Creek Watershed Stewardship: Phase II

Cooperating Entity 1: **Lassen National Forest** Cooperating Entity 2: **Lassen National Forest**

Grant Requested: **$487,660.00** Cost Match: **$183,000.00** Total Project **$670,660.00**

The project consists four components which address upper watershed issues raised from previous studies including the DCWC Watershed Management Plan, the DCWC Fire Management Framework, the LNF Deer Creek Watershed Assessment, the LNF Roads Analysis Process Plan, and the CALFED Program Management Plan, Volume II. The components include: restoration, environmental education, monitoring, and technology transfer.

637 **Anderson-Cottonwood Irrigation District**
Coordinated Shasta-Tehama Basin Water Quaility Improvement Project

Cooperating Entity 1: **Cottonwood Creek Watershed Goup** Cooperating Entity 2: **Shasta County Cattlemen**

Grant Requested: **$875,000.00** Cost Match: **$0.00** Total Project **$875,000.00**

Current regulatory activities are focusing on irrigated run-off in the Sacramento Valley, to meet the requirements of the Conditional Waiver of Waste Discharge Requirements for Discharges From Irrigated Lands (Conditional Waiver) adopted by the Central Valley Regional Water Quality Control Board (Regional Board) numerous local interests have joined together in a good faith effort to form the Sacramento Valley Water Quality Coalition (Coalition). Anderson-Cottonwood Irrigation District, the oldest and largest irrigation district operating in both Shasta and Tehama counties serving the needs of irrigated agriculture since 1914, makes this effort a natural extension of this bi-county sub-watershed.

638 **Sustainable Cotton Project**
Biological Agriculture Systems in Cotton

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$675,000.00** Cost Match: **$119,117.00** Total Project **$794,116.00**

The Sustainable Cotton Project's BASIC Program (Biological Agriculture Systems in Cotton) is a farmer based pollution prevention program that helps cotton farmers move from conventional chemically-based cotton farming to a more biological approach. It seeks to reduce toxic pesticides and nitrogen fertilizer use which threaten multiple watershed systems and contribute to many environmental and human health problems.

639 **Sustainable Conservation**
Management of Mercury-Containing Fluorescent Lamps

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$256,418.00** Cost Match: **$45,250.00** Total Project **$301,668.00**

This project will facilitate proper disposal of mercury-containing fluorescent lamps, which are a significant source of mercury releases to San Francisco Bay. Working with all key stakeholders, we will develop and implement a plan to develop the necessary lamp collection infrastructure, and to educate municipal and commercial building managers and households about the need to recycle fluorescent lamps, rather than dispose of the lamps in municipal landfills. Without our work on this project, fluorescent lamps will continue to pollute San Francisco Bay with mercury.

640 **San Francisquito Watershed Council a project of Acterra**
Fish Passage Long-Term Monitoring and Assessment and Stewardship Outreach for San Francisquito Creek

Cooperating Entity 1: **(over 30 cooperating stakeholders - see proposal)** Cooperating Entity 2: **0**
Grant Requested: **$437,197.00** Cost Match: **$344,000.00** Total Project **$781,197.00**

This project builds the capacity of the San Francisquito Watershed Council by providing staff support and resources to its three core working groups. These working groups will (1) develop and implement fish passage improvement projects to improve habitat connectivity for steelhead (2) collect and analyze water quality data to support watershed management efforts and decision-making and (3) conduct stewardhsip education to help watershed residents enhance habitat, curb pollution, and reduce flood damages.

641 **California Greenworks Inc.**
Barken Hardchrome Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$840,000.00** Cost Match: **$155,000.00** Total Project **$995,000.00**

This project will provide improved groundwater quality through removal and treatment of heavy metals. The project includes site assessment work, remedial system design, installation and operation. A new technology will be used to remove the metals from the extracted groundwater.

642 **City of Carson**
Torrance Lateral Metal Impacted Sediment Remediation and Coliform Reduction Project

Cooperating Entity 1: **Dominguez Watershed Advisory** Cooperating Entity 2: **California Greenworks**
Grant Requested: **$1,336,550.00** Cost Match: **$385,000.00** Total Project **$1,721,550.00**

The project plans to provide removal of metal (lead and copper) impacted stream sediments from within the Torrance Lateral channel, perform a record search for project information, locate source areas and implement and maintain BMPs to improve water quality. Additionally, a treatment train will be constructed and operated along the eastern/northern side of the flood control channel for the removal of coliform from low flow water. Data will be collected from both the sediment removal and coliform treatment projects prior to, during and after the implementation of the actions.

643 **Berkeley Unified School District - Berkeley High School**
Berkeley High School Strawberry Creek Project

Cooperating Entity 1: **Urban Creeks Council** Cooperating Entity 2: **University of California/ Berkeley**
Grant Requested: **$686,522.00** Cost Match: **$0.00** Total Project **$686,522.00**

The project will provide linkage of classroom curricula to real life practicum by collecting, analyzing and interpreting data in the areas of water quality, vegetation, aquatic plants, soils, banks and channels. The research area will extend from the Strawberry Creek headlands above the Lawrence Berkeley National Laboratory to San Francisco Bay.

644 **The Land Trust of Napa County**
The BRBNA - A Conservation Framework: Planning Stewardship and Outreach

Cooperating Entity 1: **U.C. Natural Reserve System Davis** Cooperating Entity 2: **0**
Grant Requested: **$500,000.00** Cost Match: **$130,000.00** Total Project **$630,000.00**

The BRBNA Conservation Partnership will create a Conservation Framework for the region including a repository for environmental and watershed information that will be used by the Partners and other stakeholders. Through implementation of the framework, the Partnership will coordinate stewardship activities by developing region-wide guidelines, supporting, linking and promoting projects, and engaging in landowner outreach efforts. In addition, region-wide educational and outreach programs targeting local communities, residents, landowners and youth will comprise the third project element, in order to build support and enhance local involvement and capacity for watershed protection efforts.

647 **Big Bear Municipal Water District (BBMWD)**
Integrated TMDL Implementation Program for Big Bear Lake

Cooperating Entity 1: **City of Big Bear Lake** Cooperating Entity 2: **Army Corps of Engineers**
Grant Requested: **$2,275,000.00** Cost Match: **$1,125,000.00** Total Project **$3,400,000.00**

This project is intended to initiate comprehensive implementation of projects designed to achieve attainment with the sediment, nutrient and invasive species TMDLs for Big Bear Lake. Preliminary modeling, supported by previous Prop13 grants, indicates that full beneficial use attainment will only occur when legacy contaminants are removed from the lake sediments. The Army Corps of Engineers is engaged in planning efforts to implements such projects. In order to justify the cost and obtain the necessary federal permits, we must first develop more sophisticated sedimentation models and engineer a pilot-scale demonstration project. Rresults will be used by the ACOE to to plan and implement a full-scale sediment remediation program and sedimentation projects. A significant public education and monitoring component are included as part of the prevention program and to document successful TMDL implementation.

648 **San Jose State University on behalf of Moss Landing Marine Laboratories**
Consolidated Coastal Watershed Monitoring for Regions 1 2 & 3

Cooperating Entity 1: **University of California - Davis** Cooperating Entity 2: **CA Dept of Fish and Game**
Grant Requested: **$2,951,670.00** Cost Match: **$0.00** Total Project **$2,951,670.00**

The proposed project is a cooperative effort between San Jose State University Foundation, RWQCBs 1, 2, & 3, CA Dept of Fish and Game, University of California Davis and the California Coastal Commission to implement a consistent and comprehensive watershed monitoring and assessment program in the coastal watersheds of Regions 1, 2, and 3. High priority watersheds are targeted for assessment of chemicals of conern and biological impacts. Optimized use of funds includes utilizing existing infrastructure of other SWRCB programs, established relationships with laboratories and facilities in the respective regions, and student and citizen

649 **Friends of the Santa Clara River**
Water Quality Improvement in the Santa Clara River (Nitrate Nitrite Ammonia and Legacy Sediment Contamination): Treatment of Agricultural Runoff

Cooperating Entity 1: **Agrarian Research** Cooperating Entity 2: **University of California Santa Barbara**
Grant Requested: **$340,100.00** Cost Match: **$0.00** Total Project **$340,100.00**

This project will develop a demonstration pilot project for the treatment of agricultural runoff into the Santa Clara River. The treatment process will use bioswales, which are very effective at the removal of nitrates, nitrites and ammonia, which are the impairment factors in the Santa Clara River. The bioswales also remove almost all of the TSS runoff, which contain legacy pesticides, which will also be controlled from entering the Santa Clara River.

650 **Mission Resource Conservation District**
NPS Education for Land Use Decision Makers

Cooperating Entity 1: **California Coastal Commission** Cooperating Entity 2: **State Water Resources Control Board**
Grant Requested: **$262,000.00** Cost Match: **$130,750.00** Total Project **$392,750.00**

This project proposes to introduce effective and long-term policies in local communities that will prevent nonpoint source pollution during the siting and design phases of development projects. The project team (California NEMO Partnership) will accomplish this by implementing a 2.5 year educational program for land use decision makers, utilizing a well-established program design that has been successful in other States. Through a series of two-hour workshops, and topic specific fact sheets and technical papers, land use decision makers will learn the direct relationship between land use and natural resource protection, how to address the issue of nonpoint source pollution, how to enhance local land use policies and ordinances to reduce impacts to water quality and examples of BMPs to protect water quality in their watershed.

651 **California Department of Conservation California Geological Survey (CGS)**
Distribution Characteristics and Mobility of Mercury Bearing Sediments in Cache Creek and Implications for Mercury Load Reduction

Cooperating Entity 1: **California State University Chico** Cooperating Entity 2: **California Department of Fish and Game Moss Landing Laboratory**
Grant Requested: **$915,000.00** Cost Match: **$0.00** Total Project **$915,000.00**

This study will inventory the distribution and determine the characteristics of mercury-enriched sediments along the lower 48 miles of Cache Creek. Mercury-sediment transport will be modeled to determine relations between flow and mercury load and to identify target areas where erosion control activities may be beneficial for mercury load reduction. The stability and reactivity of the various forms of mercury present will be modeled for chemical conditions representative of various fluvial and wetland environments.

652 **California Geological Survey (DOC)**
Pilot Study for Abatement of Mercury and Sulphate from Hydrothermal Springs Cache Creek Watershed

Cooperating Entity 1: **University of California Davis** Cooperating Entity 2: **Tetra Tech EM Inc.**
Grant Requested: **$840,000.00** Cost Match: **$0.00** Total Project **$840,000.00**

Construction and operation of pilot-scale treatment systems to evaluate methods that could be used to reduce mercury and sulfate loads from hydrothermal springs in the Cache Creek watershed; and assessment of baseline, in progress, and post treatment mercury and sulfate loads and biotic uptake to evaluate the benefits of the pilot study.

653 **U.S. Geological Survey**
Cosumnes River Watershed Mercury Loading Study and Source Assessment

Cooperating Entity 1: **University of California Davis** Cooperating Entity 2: **Sacramento County DWR**
Grant Requested: **$1,725,000.00** Cost Match: **$355,000.00** Total Project **$2,080,000.00**

The Cosumnes River watershed has been identified from previous work as an area with acute mercury contamination from historical gold mining activities. Because it has no major dams or impoundments, there is little doubt that remediation of potential mine-related sources of mercury would benefit downstream areas including the North Delta, an area slated for aquatic restoration activities. A comprehensive study of mercury and methylmercury loads and a reconnaissance of mercury sources associated with historical mine sites and downstream sediment deposits are needed to define potential remediation targets and to quantify possible benefits.

654 **Sacramento Area Flood Control Agency (SAFCA)**
Lake Natoma and Lower American river Mercury Assessment

Cooperating Entity 1: **Sacramento Regional County Sanitation District** Cooperating Entity 2: **Sacramento Water Forum**

Grant Requested: **$577,700.00** Cost Match: **$392,000.00** Total Project **$1,019,700.00**

An assessment of mercury and methylmercury in water, sediment and biota will be completed in the Lower American River (below Folsom Dam). The goal of the project is to determine the role of gold dredging materials, and their associated residual mercury, along with a comparison of urban sources, to the bioaccumulation of mercury in fish of the lower American River.

656 **City of Manhattan Beach**
Low-Flow Diversion Catch Basin with Automatic Bypass

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$250,000.00** Cost Match: **$37,500.00** Total Project **$287,500.00**

The City of Manhattan Beach controls 25 storm drain outlets along approximately two miles of beach on Santa Monica Bay. Some of these storm drain outlets produce dry weather flows that reach the ocean. This project focuses on the design and construction of low-flow diversion catch basins at six locations to eliminate dry weather flow. The project will result in new technology that will help control urban runoff at the beach and improve water quality in Santa Monica Bay.

657 **Tuolumne River Trust on behalf of the Clavey River Ecosystem Project**
Clavey Watershed Assessment

Cooperating Entity 1: **U.C. Davis Information Center for the Environment** Cooperating Entity 2: **Clavey River Preservation Coalition**

Grant Requested: **$698,000.00** Cost Match: **$0.00** Total Project **$698,000.00**

The goal of the watershed assessment (WA) is to determine the condition and function of ecological processes in the watershed and recommend management practices to maintain or restore them. The watershed assessment will help to define the relationships among watershed processes, ecosystem functions, habitat supporting diverse and sustainable populations, and good water quality. The process of conducting the assessment is as important as the final product, and will facilitate and improve coordination and collaboration among government agencies and CREP while also helping to educate and increase local involvement in watershed activities.

659 **California State University Fresno**
The Analysis of Semi-Volatile Pesticides in the San Joaquin River Phase II.

Cooperating Entity 1: **The California Water Institute** Cooperating Entity 2: **Fresno Metropolitan Flood Control District**

Grant Requested: **$303,600.00** Cost Match: **$50,000.00** Total Project **$353,600.00**

The analysis of surface and ground water for organophosphorus pesticides (diazinon), before during and after rainfall events for two years. This work will attempt to identify environmental sources, analyte slug width in the river, recovery time of the river, ability of abandoned gravel mine pools to sequester these compounds and the depth profile in these pools, lag time into ground water (drinking water) wells, residence time, and major degradation products.

660 **City of San Diego Storm Water Pollution Prevention Program**
The San Diego Watersheds Common Grounds Project: San Diego Bay Watershed Demonstration

Cooperating Entity 1: **San Diego BayKeeper** Cooperating Entity 2: **San Diego State University - Department of Geography**

Grant Requested: **$1,440,000.00** Cost Match: **$415,000.00** Total Project **$1,783,000.00**

The project will enhance region's capacity to understand conditions of water resources and trends over time through several means, including: (1) establishment of a Regional Water Quality Monitoring and Resource Center; (2) monitoring activities in support of TMDL development (addressing benthic community degradation and sediment toxicity); (3) implementation of a Water Resources Information Integration element; and, (4) creation of an interactive web-based outreach, education and decision-making tool.

661 **Community Alliance with Family Farmers**
Vegetative Conservation Practives to Protect Water Quality

Cooperating Entity 1: **Monterey County and Santa Cruz County RCDs** Cooperating Entity 2: **UCSC Dept. of Environmental Studies**

Grant Requested: **$1,343,017.00** Cost Match: **$268,603.00** Total Project **$1,611,620.00**

The Community Alliance with Family Farmers (CAFF) proposes to expand and refine its program to assist farmers and land owners in the planting of hedgerows, filter strips, and grassed waterways. These conservation practices can protect water quality, with well demonstrated potential benefits reducing sedimentation, siltation, and nutrient loading into waterways.

662 **Grassland Water District**

Application of GIS and remote sensing technology for habitat enhancement and salinity management in the Grasslands Basin.

Cooperating Entity 1: **Berkeley National Laboratory** Cooperating Entity 2:**University of California Davis**
Grant Requested: **$465,000.00** Cost Match: **$0.00** Total Project **$465,000.00**

This project will develop methods of remote sensing of wetland vegetation by establishing spectral signatures of the local moist-soil plants and using those signatures to process high resolution aerial and satellite imagery found in the region. We will apply these methods to gain a better understanding of several important wetland parameters including 1) total species composition 2) waterfowl food availability, and 3) vegetation water requirements. In addition, by processing images from subsequent years, impacts from management decisions can be monitored, thus completing the adaptive management feedback loop.

663 **Grassland Water District**

Water quality groundwater resource inventory beneath wetlands in the Grasslands Ecological area using geochemical logging

Cooperating Entity 1: **Berkeley National Laboratory** Cooperating Entity 2:**US Bureau of Reclamation**
Grant Requested: **$450,000.00** Cost Match: **$0.00** Total Project **$450,000.00**

To obtain Level-IV water supplies under the CVPIA mandate the US Bureau of Reclamation and local water districts are cooperating in exploring groundater conjunctive use beneath managed wetlands in the Grassland Ecological Area. This assessment has been compromised by a lack of data on the depth distribition of salts and other contaminants in the regional aquifer. This study employs a patented geochemical logging technique, developed at Berkeley National Laboratory to address this problem. The technique is applicable in both monitoring and production wells with well screens and is both inexpensive and robust. Project deliverable is a groundwater quality map of aquifer underlying the Grasslands Ecological Area.

664 **Patterson Irrigation District**

Real-Time Monitoring and Evaluation of Sustainable Water Reuse Practices for Environmental Management and TMDL Compliance

Cooperating Entity 1: **Berkeley National Laboratory** Cooperating Entity 2:**0**
Grant Requested: **$490,000.00** Cost Match: **$100,000.00** Total Project **$590,000.00**

Patterson Irrigation District has implemented a irrigation return flow capture system which minimizes silt laden return flows to the San Joaquin River. Using real-time monitoring of the sediment, salt, algal precursors and other pollutants of concern the project will quantify the benefits of such a system to the San Joaquin River as well as estimate the potential long-term impact of operating a closed system on salt accumulation within the District over time. The high degree of monitoring and automation that is already installed within the District provides a unique opportunity to evaluate the positive aspects of such a management program as well as the potential long term impacts.

665 **Berkeley National Laboratory**

Real-Time Forecasting and Emergency Management Addressing Selenium Pump Drainage to the Delta Mendota

Cooperating Entity 1: **Danish Hydrologic Institute** Cooperating Entity 2:**US Bureau of Reclamation**
Grant Requested: **$495,000.00** Cost Match: **$0.00** Total Project **$495,000.00**

The US Bureau of Reclamation recently agreed to an intensive selenium monitoring plan in the Delta Mendota Canal to prevent having the Canal listed as an impaired water body as a result of actions initiated by the US Fish and Wildlife Service because of frequent violations of the 2 ppb selenium water quality objective. Although this monitoring program will more accurately measure those periods during which selenium objectives are exceeded it will do nothing to solve the problem of unregulated selenium drainage pump-ins along the DMC alignment during and after rainfall events - typically when DMC flows are at a minimum. A selenium forecasting system will be developed with guidelines for emergency response to prevent selenium objective exceedences. This project will help to ensure safe water supply to wetlands as well as improve compliance with selenium TMDL limits.

666 **Yurok Tribe**

Ah Pah Creek Watershed Restoration Project

Cooperating Entity 1: **Simpson Resource Company** Cooperating Entity 2:**0**
Grant Requested: **$500,000.00** Cost Match: **$76,000.00** Total Project **$576,000.00**

Historical aerial photographs and detailed field surveys indicate that damage to Lower Klamath river stream channels, including Ah Pah Creek, is largely a result of road prism failures, road stream crossing failures, and landslide related surface erosion that delivers sediment directly into streams. The next priority roads targeted for road decommissioning in the Ah Pah Creek Watershed will be decommissioned, utilizing heavy equipment, field volume measurements, fishery monitoring methods and erosion control. The Ah Pah Creek Watershed Restoration Project will prevent 50,000 cubic yards of sediment from entering nearby streams.

667 **Sustainable Conservation**
Wastewater to Wetlands - Opportunities for California Food Producers

Cooperating Entity 1: **Pacific Coast Producers** Cooperating Entity 2: **Other secondary partnerships under development**

Grant Requested: **$187,500.00** Cost Match: **$62,500.00** Total Project **$310,000.00**

This project will complement natural wetland restoration efforts by working with public and private partners to promote and build a 3-acre constructed wetland to treat food processing wastewaters as a pilot project aimed at validating their performance for future expanded use in the Central Valley. These wetlands offer cost-effective and energy efficient advanced water treatment, and provide invaluable wildlife habitat, reclaimed water, and community educational opportunities. While these wetlands are used successfully on the coast for municipal wastewaters, they have not been embraced by the agricultural industry that discharges a huge amount of water to land in the Central Valley. This project's unique integration of proactive, voluntary conservation and industrial waste management affords access to an uptapped and potentially large source of natural resources on private lands in the Bay-Delta Basin.

668 **Contra Costa County Community Development Department**
Land-cover and Impervious Surface Mapping of Contra Costa County

Cooperating Entity 1: **Contra Costa County Flood Control and Water Conservation District** Cooperating Entity 2: **0**

Grant Requested: **$281,000.00** Cost Match: **$50,000.00** Total Project **$321,000.00**

Create a complete land-cover/vegetation map of Contra Costa County. In tandem, produce an impervious surface map of the county. Both maps will be created digitally, in a GIS system.

670 **UC Davis**
TMDL Watershed Monitoring and Modeling for Integrated Watershed Assessment and Management

Cooperating Entity 1: **None** Cooperating Entity 2: **0**

Grant Requested: **$4,039,260.00** Cost Match: **$0.00** Total Project **$4,039,260.00**

This project consists of six interdependent modules that 1) compile information on existing monitoring programs to avoid duplication of monitoring effort, 2) monitor OP pesticides in the Central Valley, 3) investigate nutrient/DO and food resources within the Sacramento and San Joaquin Rivers, 4) perform GIS analysis in selected watersheds to quantify variability in pesticide use and identify alternative pest management strategies for reducing water quality impacts, 5) develop appropriate database management protocols that facilitate data sharing with CalFed agencies, and 6) provide outreach and training in monitoring protocols and sample collection to watershed

671 **Trinity County Natural Resources**
Five Counties Salmonid Conservation Program Sediment Reduction Projects: Big Creek Holiday Mine and Salmon Creek Roads

Cooperating Entity 1: **County of Del Norte** Cooperating Entity 2: **County of Humboldt**

Grant Requested: **$274,252.00** Cost Match: **$494,590.00** Total Project **$768,842.00**

As part of the Five Counties Salmonid Conservation Program's (5C) sediment reduction program, three projects have been targeted for implementation in FY 2004 based on prioritized results obtained from a systematic inventory of erosion sources on county roads. Proposed treatments will prevent or minimize the delivery of ~ 25,170 yd3 of sediment over a ten year period. Work largely consists of drainage improvements, replacement of deficient stream crossings, and landslide stabilization. Projects have been coordinated with various local and federal agencies.

673 **California Geological Survey**
Brady Ranch Mine Remediation

Cooperating Entity 1: **Walker & Associates** Cooperating Entity 2: **Construction Remediation**

Grant Requested: **$895,000.00** Cost Match: **$50,000.00** Total Project **$945,000.00**

The remediation of Acid Mine Drainage, the associated heavy metals, and erosion and transport of Acidic Mine Waste into Wellman Creek and ultimately to the Sacramento River.

674 **City of Los Angeles Department of Public Works Bureau of Sanitation Financial Management Division**
Donald C. Tillman Water Reclamation Plant (TWRP) Nitrogen Removal Conversion

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$5,000,000.00** Cost Match: **$54,475,000.00** Total Project **$59,475,000.00**

This project will convert the Donald C. Tillman Water Reclamation Plant's (TWRP's) aeration basins to biological nitrogen removal reactors. This will improve the quality of the discharge to the Los Angeles River, which will be beneficial to wildlife as well as the many people who live and work near this urban river.

675 **City of Los Angeles Department of Public Works Bureau of Sanitation Financial Management Division**
Los Angeles/Glendale Water Reclamation Plant (LAGWRP) Nitrogen Removal Conversion

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$5,000,000.00** Cost Match: **$9,950,000.00** Total Project **$14,950,000.00**

This project will convert the Los Angeles/Glendale Water Reclamation Plant's (LAGWRP's) aeration basins to biological nitrogen removal reactors. This will improve the quality of the discharge to the Los Angeles River, which will be beneficial to wildlife as well as the many people who live and work near this urban river.

676 **City of Los Angeles Department of Public Works Bureau of Sanitation Financial Management Division**
Terminal Island Treatment Plant (TITP) Advanced Wastewater Treatment Facility (AWTF) Phase 2

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$5,000,000.00** Cost Match: **$15,800,000.00** Total Project **$20,800,000.00**

This project will construct facilities to reclaim an additional 5MGD of water for beneficial uses that can offset the need for potable water and be used for seawater intrusion barrier projects to protect the groundwater. The treatment facilities may include reverse osmosis, microfiltration, or ultraviolet treatment.

677 **Surprise Valley Meadows Road Maintance Association**
Surprise Valley Meadows Road Maintenance Association - Sediment Reduction Plan V1.0

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$248,923.00** Cost Match: **$43,928.00** Total Project **$292,850.00**

Pave existing three major dirt roads, pressured on a daily basis by >25 families with 2"- 4" of bituminous asphalt or "hot mix". Goal is to eliminate or significantly reduce the sediment discharge into the Upper Albion River (Albion River, CA watershed #11340013,identified on the 303 (d) list), Big-Navarro-Garcia Watershed, US EPA watershed #18010108 (identified on the 303 (d) list). Prior to paving roads, preliminary work would include: Pre-project assessment of water quality/suspended sediments/turbidity, preparing existing dirt road bases and installing new culverts and replacing old culverts.

679 **Tehama County Department of Education**
Dye Creek Watershed Project

Cooperating Entity 1: **The Nature Conservancy** Cooperating Entity 2:**0**
Grant Requested: **$525,000.00** Cost Match: **$0.00** Total Project **$525,000.00**

0

680 **Marin Audubon Society**
Simmons Slough Acquisition and Restoration

Cooperating Entity 1: **Marin County Board of Supervisors** Cooperating Entity 2:**Open Space District**
Grant Requested: **$543,000.00** Cost Match: **$1,208,000.00** Total Project **$1,751,000.00**

The project consists of the acquisition and restoration of a 50-acre site at 300 Olive Avenue in Novato, at the headwaters of Sommons Slough, a tributary of Novato Creek. The site supports riparian woodlands, wet meadow, seeps, and seasonal wetlands/historic baylands. MAS will aquire and restore the habitat.

681 **Central Modoc Resource Conservation District**
Upper Pit River Watershed Enhancement and Protection Project

Cooperating Entity 1: **USDA Natural Resources Conservation Service - Alturas Field Office** Cooperating Entity 2:**Pit River Tribe**
Grant Requested: **$783,150.00** Cost Match: **$139,400.00** Total Project **$922,550.00**

Watershed Coordination for Central Modoc RCD will manage a wide range of stewardship issues and stakeholder coordination. Two private sites and one tribal site will treat nearly 1.5 miles of stream channel using biotechnical methods, in coordination with ongoing watershed monitoring and assessment programs. An additional site will be subject of detailed engineering and hydrologic study in order to determine the best means of addressing riparian management problems associated with high irrigation diversion dams.

682 **Central Modoc Resource Conservation District**
Central Modoc River Center Program Expansion

Cooperating Entity 1: **Modoc County Office of Education** Cooperating Entity 2:**USDA Natural Resources Conservation Service-Alturas Field Office**
Grant Requested: **$341,973.00** Cost Match: **$65,200.00** Total Project **$418,821.00**

An unmet need for watershed and natural resource education in Northeastern California has recently been addressed with the opening of the Central Modoc River Center. This new facility was brought to life through extensive community support but it will need to grow in order to meet its goals and objectives. The planning to define that growth is the subject of the proposed project, which will match substantial local participation and skill with engineering, design and archetectural professional services.

684 **Western Shasta Resource Conservation District**
LOWER CLEAR CREEK FLOODWAY REHABILITATION PHASES 3B & 3C

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2:**US Bureau of Reclamation**
Grant Requested: **$4,675,447.00** Cost Match: **$1,875,689.00** Total Project **$6,551,136.00**

This project will complete the final segments of the Lower Clear Creek Floodway Rehabilitation Project that have the largest benefit for thretened and endangered anadromous fish. Phase 3B will relocate and raise bankfull channels and revegetate the area in the middle of the 1.8 mile degraded section. Phase 3C will relocate and raise bankfull channels and revegetate the area in the downstream area of the 1.8 mile degraded reach. Phases 1, 2, and 3A have already been completed.

685 **Western Shasta Resource Conservation District**
OREGON GULCH CREEK RESTORATION

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **City of Redding**
Grant Requested: **$500,094.00** Cost Match: **$53,500.00** Total Project **$553,594.00**

The project restores a large portion of the Oregon Gulch Creek riparian corridor and oak woodlands that have been scarred and reshaped by years of use by illegal off-road vehicles, leaving large areas of exposed soil, steep banks barren of vegetation, and large trash piles and appliances through illegal dumping. The restoration includes erosion control measures and recontouring and revegetation of riparian areas and hillsides, monitoring water quality and revegetation, and the removal and disposal of trash and appliances.

686 **Western Shasta Resource Conservation District**
KESWICK RESERVOIR WATERSHED RESTORATION PROJECTS

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **US Bureau of Reclamation**
Grant Requested: **$696,309.00** Cost Match: **$34,000.00** Total Project **$730,309.00**

This package proposal will identify and implement on-the-ground projects to improve waterquality that drains to and from the Keswick Basin Watershed, home to Iron Mountain Mine, into the Sacramento River south of Shasta Dam. The includes identifying fish passage barriers related to culverts and repair of two priority problems and monitoring for two years; injection of spawning gravel annually on key tributaries; an erosion inventory and sediment budget with the repair and correction of one or more priority projects; inventory of heavy infestations of non-native invasive woody species and eradication/control of one or more infestations; establishment of a Keswick Watershed Group to complete a watershed management plan (the watershed assessment was completed by the Iron Mountain Mine Trustee Council in April 2002), including a fuel inventory/strategic fuels reduction plan and implementation of priority fuelbreaks.

687 **Western Shasta Resource Conservation District**
STILLWATER-CHURN CREEK WATERSHED ASSESSMENT

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **City of Redding**
Grant Requested: **$276,586.00** Cost Match: **$15,250.00** Total Project **$291,836.00**

This project is a watershed assessment for the Stillwater and Churn Creek watersheds, neighboring watersheds on the east side of the Sacramento River including the Cities of Shasta Lake and Redding. The assessment will include existing data on the conditions of water, geology and soils, erosion, hyedrology, vegetation, fisheries, wildlife, human uses, and fire and fuels, concluding where watershed conditions mayb e limitin beneficial water uses and/or anadromous and resident fish populations. This includes the formation of a Stillwater-Churn Creek Watershed Group, community meetings, formation of a Technical Advisory Committee, quarterly newsletter and workshops.

688 **Santa Clara Valley Water District**
Sediment Pollution Reduction and Watershed Analysis in Santa Clara Streams

Cooperating Entity 1: **Santa Clara Basin Watershed Management Initiative** Cooperating Entity 2: **Santa Clara Valley Urban Runoff Pollution Prevent Program**

Grant Requested: **$1,520,000.00** Cost Match: **$975,000.00** Total Project **$2,495,000.00**

The center piece of this proposal is the sediment reduction efforts in Tompson Creek, Coyote Watershed, in the South San Francisco Bay. Other elements such as feasibility studies for other adjacent sites; technical support for outreach to creek-side land owners; and technical assistance to support and nurture watershed councils are described to expand the potential for transfering relevant site-specific solutions to a broader audience for community capacity building.

689 **Santa Clara Valley Water District**
Feasiblity Analyses in the Implementation of the Guadalupe River Watershed Stewardship Plan

Cooperating Entity 1: **Santa Clara Basin Watershed Management Initiative** Cooperating Entity 2: **Water Resources Protection Collaborative**

Grant Requested: **$350,000.00** Cost Match: **$25,000.00** Total Project **$355,000.00**

The center piece of this proposal is the sediment reduction efforts in Tompson Creek, Coyote Watershed, in the South San Francisco Bay. Other elements such as feasibility studies for other adjacent sites; technical support for outreach to creek-side land owners; and technical assistance to support and nurture watershed councils are described to expand the potential for transfering relevant site-specific solutions to a broader audience for community capacity building.

690 **San Joaquin River Parkway and Conservation Trust Inc.**
This River is Our River Phase 2- Watershed Capacity Building

Cooperating Entity 1: **The Bay Institute of San Francisco** Cooperating Entity 2: **0**

Grant Requested: **$585,000.00** Cost Match: **$0.00** Total Project **$585,000.00**

Public opinion research tools will be used to gauge awareness of the San Joaquin River and its watershed in up to a 9-county area to identify any geographic differences that would influence a growing watershed-level communications program. New outreach materials will be created for the diverse communities in the Central Valley. The project will provide additional opportunities for agencies, organizations and educators to be media-trained and attend a workshop that will provide instruction on how to use a new, technically sophisticated ecological scorecard for bay-delta rivers as well as how, using the polling data, its results can be effectively and consistently communicated to the public.

691 **California Water Institute**
Ag Waiver Landowner Training

Cooperating Entity 1: **Lawrence Berkeley National** Cooperating Entity 2: **0**

Grant Requested: **$494,000.00** Cost Match: **$0.00** Total Project **$494,000.00**

As a result of future requirements for Ag Waivers, our project proposes to work with the SWRCB to develop BMP standards for ag water runoff monitoring. We then propose to develop and administer a program to teach farmer s and water districts how to conduct the new monitoring requirements.

692 **California State University Hayward Foundation**
Intercepting suburban runoff with sequences of restored native vegetation to reduce pollutants into restored and reference marshes along the outer Delta.

Cooperating Entity 1: **McNabney Marsh Management Advisory Committee** Cooperating Entity 2: **Mount View Sanitary District (among others e.g. E Bay Reg. Pk District)**

Grant Requested: **$887,500.00** Cost Match: **$137,500.00** Total Project **$1,025,000.00**

In our array of adjacent watersheds near brackish tidal creek mouths, we will restore native vegetation over erosion and use novel field bioassays and chemistry to compare effects of planting native vegetation in polluted runoff, hypothetically becoming cleaner downstream vs. upstream in certain native vegetation relative to local watersheds at reference sites.

693 **San Francisco Bay Wildlife Society**
Naturally treating suburban runoff with restored native vegetation to reduce pollutants into restored and established marshes along SE San Francisco Bay.

Cooperating Entity 1: **California State University Foundation** Cooperating Entity 2: **Alameda County Clean Water Program**

Grant Requested: **$822,500.00** Cost Match: **$123,500.00** Total Project **$946,000.00**

In our array of adjacent watersheds near freshwater creek mouths, we will restore native vegetation over invasive plants and erosion and use novel field bioassays and chemistry to compare effects of planting native vegetation in suburban runoff, hypothetically becoming cleaner downstream vs. upstream in certain native vegetation relative to local watersheds at reference sites, preferably including relatively pristine coastal lagoon sites in and near Pescadero Marsh.

694 **Butte County Farm Bureau**
Coordinated Butte Basin Water Quality Improvement Project

Cooperating Entity 1: **Ducks Unlimited** Cooperating Entity 2: **Coalition for Urban/Rural Environmental Stewardship (CURES)**

Grant Requested: **$1,721,081.00** Cost Match: **$430,267.00** Total Project **$2,151,339.00**

The project will work with irrigated agriculture and other groups within the Butte Basin Watershed to implement a water quality program that uses education and outreach programs to gain acceptance and promote the use of best management practices to meet water quality objectives. Best Management Practices that be monitored to measure their effectiveness in reducing pollutants and meeting water quality objectives.

695 **Pajaro River Watershed Flood Prevention Authority**
Soap Lake Sediment Study

Cooperating Entity 1: *** Please See Attachment 1a** Cooperating Entity 2: *** Please See Attachment 1a**

Grant Requested: **$1,172,500.00** Cost Match: **$1,172,500.00** Total Project **$2,345,000.00**

The Soap Lake Sediment Study will address sediment in the Pajaro River, a pollutant of concern that has been identified in the 303(d) list for the waterbody. To accomplish the study goals, a 10-acre riparian corridor demonstration project will be established and GIS databases and models will be created to support this and other watershed efforts. In addition, community stewardship will be fostered through direct public involvement in the corridor creation and water quality monitoring efforts.

696 **Aquamarine Research**
Monitoring the Impacts of the South San Francisco Bay Wetlands Restoration on Fish Populations

Cooperating Entity 1: **Marine Science Institute** Cooperating Entity 2: **0**

Grant Requested: **$300,000.00** Cost Match: **$404,000.00** Total Project **$704,000.00**

697 **CITY OF LOS ANGELES BUREAU OF SANITATION**
SEPULVEDA WETLANDS PARK

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$5,000,000.00** Cost Match: **$10,590,000.00** Total Project **$15,590,000.00**

The project is a Concept proposal to build 50-75 acres of treatment wetlands in the Sepulveda basin. The wetlands will provide additional treatment up to 20 mgd of tertiary treated flow from Tillman Water Reclamation plant to comply with the Nitrogen requirements and also treat 5 mgd of urban runoff. The project will provide additional recreational opportunitites, and include an Interactive Educational Science and Nature program

698 **City of Los Angeles**
Los Angeles River Revitalization Plan

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$3,700,000.00** Cost Match: **$1,000,000.00** Total Project **$4,700,000.00**

Los Angeles River Reviatalization plan is a proposal to revitalize 30 miles of the LA River from Canoga park to Boyle Heights. The revitalization will improve water quality, environment, maintain and enhance flood control, provide economic and recreational development, and oportunities for cultural and educational program ,

699 **Southern Sonoma County Resource Conservation District**
Dairy Belt Nutrient Budgeting Program

Cooperating Entity 1: **Resource Performance Partners** Cooperating Entity 2: **Univ. of Calif. Cooperative Extension**

Grant Requested: **$673,000.00** Cost Match: **$177,000.00** Total Project **$850,000.00**

Construct an anaerobic digester and develop a plan to provide effective manure management throughout the Sonoma-Marin Dairy Belt. Project objectives entail environmental and water quality improvements, economic benefits, and research strategies for regional service. Develop an implementation plan that will serve resource agencies and the dairy industry with appropriate manure management strategies to continue to improve water quality in the watershed and region.

700 **Dr. Carol Kendall U.S. Geological Survey Prop. 50 (Part DWQP part Watersheds Program)**
Short title: Development of new isotope tools for assessing sources of organic matter and nutrients in the SJR

Cooperating Entity 1: **U.S. Geological Survey** Cooperating Entity 2: **Lawrence Berkelely National**

Grant Requested: **$763,000.00** Cost Match: **$240,000.00** Total Project **$993,000.00**

701 **The Eel River Watershed Improvement Group**
Lower Van Duzen Restoration Project 04

Cooperating Entity 1: **Ca Department of Fish and Game** Cooperating Entity 2: **Humboldt County Resource Conservation District**

Grant Requested: **$356,791.00** Cost Match: **$118,931.00** Total Project **$475,720.00**

The objectives of this proposal are to prevent massive stream bank erosion, restore spawning salmonid migration access, and restore mature riparian habitat along the lower Van Duzen River. The project will involve installing 2 large boulder wing deflectors, and 20 complex boulder wing deflectors with logs at 100 foot intervals, grading vertical streambanks to 2:1, and bioengineering willow mattress on the banks between the structures, and installing livestock exclusion fencing and planting the exclusions

702 **City of Santa Cruz**
City of Santa Cruz Storm Water Management Program

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$661,700.00** Cost Match: **$32,000.00** Total Project **$693,700.00**

The project comprises elements of public education and outreach, storm water monitoring, storm water management through infrastructure improvements and equipment upgrades, and investigation of illegal connections and discharges to accomplish several goals of the City of Santa Cruz Storm Water Management Program. The project will benefit several waterways throughout City limits and the offshore ocean areas receiving stormwater from City streets. The project involves production of materials, retrofit of City equipment and construction of facilities to eliminate identified sources of pollutants entering the storm water system.

703 **U.S. Forest Service Redwood Sciences Laboratory**
Turbidity monitoring and assessment: establishing methods quantifying sources and transport modeling consequences for fish populations

Cooperating Entity 1: **California State Parks & Recreation** Cooperating Entity 2: **Salmon Forever (N.P.O. 501C3)**

Grant Requested: **$1,141,225.00** Cost Match: **$991,850.00** Total Project **$2,133,075.00**

We propose a comprehensive study linking the origin and transmittal of turbidity to effects on fish populations. Results will be useful for planning and implementing management of watersheds.

704 **Colusa Basin Drainage District**
Colusa Basin Drain Wetland Filtration Demonstration Project

Cooperating Entity 1: **Wildlands Inc.** Cooperating Entity 2: **Ducks Unlimited Inc**

Grant Requested: **$753,500.00** Cost Match: **$150,000.00** Total Project **$903,500.00**

This 2,300-acre project in Yolo County will provide water quality improvements on the Colusa Basin Drain. 500 acres of ag land on the property will be restored to a natural wetlands system for a 3 year pilot project. Pesticide-laden drain water will be filtered through a series of wetland holding areas and returned to the Colusa Basin Drain with reduced loads of pesticide. Grant funds will provide for restoration, management and monitoring on the project site.

705 **Westport County Water District**
Wages Creek Top to Bottom

Cooperating Entity 1: **Hawthorne Timber Co.** Cooperating Entity 2: **California Department of Forestry and Fire Protection**

Grant Requested: **$300,000.00** Cost Match: **$300,000.00** Total Project **$600,000.00**

We are proposing to improve water quality in Wages Creek, home to steelhead, coho salmon, and now King salmon along with the water source for Westport, a small rural town on the Mendocino Coast. Turbidity is a longstanding problem to the town's water supply with a non-point watershed source. We intend to inventory controllable road based sediment sources and repair them on small private ownerships and across the industrial timberlands of Wages Creek. We will expand on erosion control and BMP effectiveness monitoring to compliment existing programs.

706 **Bolinas Community Public Utility District (BCPUD)**
Bolinas Community Public Utility District- Mesa Park Water Reclamation Project

Cooperating Entity 1: **Bolinas Fire Protection District (BFPD)** Cooperating Entity 2: **Coastal Health Alliance (CHA)**

Grant Requested: **$543,500.00** Cost Match: **$95,250.00** Total Project **$638,750.00**

Water Reclamation: A jiont effort between BCPUD, BFPD, CHA and Mesa Park to install a water treatment plant at the BCPUD facility to treat sewage water to state tertiary standards for irrigation at Mesa Park and to relieve sesonal water issues at the BCPUD facility.

707 **City of Big Bear Lake**
Rathbun Creek Wetlands and Silt Basin

Cooperating Entity 1: **San Bernardino County Flood Control District** Cooperating Entity 2: **East Valley Resource Conservation District**

Grant Requested: **$4,985,000.00** Cost Match: **$260,000.00** Total Project **$5,245,000.00**

The Project consists of creation of a wetlands area for public use and education on a ten acre site to be acquired. Appropriate sediment/ground water recharge basin development to slow water velocity, mitigate flood flows, and desilt water prior to entering the wetlands wll be included. Nutirent loading due to current agricultural use will be eliminated. Potential positive impacts on ground water quality and supply will also be investigated.

708 **Natural Heritage Institute**
Marsh Creek Mercury Assessment and Evaluation of Abandoned Mine Liability Management Strategies

Cooperating Entity 1: **U.C. Davis** Cooperating Entity 2: **Tetra Tech EM Inc.**
Grant Requested: **$1,170,000.00** Cost Match: **$585,000.00** Total Project **$1,755,000.00**

The aim of this project is to assess and evaluate the effects of mercury from the Mount Diablo Mercury Mine (Mine) on the Marsh Creek watershed and the Sacramento-San Joaquin Delta in Contra Costa County, California. The project has five objectives: 1) characterize mine site conditions and develop assessment and plan for remediation; 2) measure and monitor mercury concentrations and flux from the Mine, the Marsh Creek Reservoir, and lower Marsh Creek to the Delta; 3) develop a broadly applicable legal framework for limiting liability associated with publicly funded mine site remediation efforts at the Mine and other abandoned mine sites in California; 4) evaluate opportunities for modifying the Marsh Creek Reservoir to limit the flow of mercury through the Reservoir to the Delta.; 5) identify and evaluate strategies for reducing the of flow of mercury in Marsh Creek from the Reservoir to the Delta.

709 **California Department of Food and Agriculture**
Mapping Assessment and Control of Prioritized Invasive Plants in the Delta Region of the San Joaquin and Sacramento River Watersheds

Cooperating Entity 1: **Information Center for the Environment UC Davis** Cooperating Entity 2: **The Nature Conservancy**
Grant Requested: **$2,240,000.00** Cost Match: **$600,000.00** Total Project **$2,840,000.00**

This project endeavors to take a coordinated regional approach to 1) determining what significant invasive weed species are in the Delta, Lower Sacramento Watershed, Lower San Joaquin Watershed, 2) setting priorities for the relative importance of treating and containing spread of each infestation, and 3) providing cost-share funding to Weed Management Areas and other watershed groups to do the management and prevention work.

710 **City of Mount Shasta**
Mill Creek Stormwater Mitigation Project

Cooperating Entity 1: **U.S. Fish and Wildlife Service** Cooperating Entity 2: **U.S. Forest Service**
Grant Requested: **$300,000.00** Cost Match: **$75,000.00** Total Project **$375,000.00**

The purpose of the project is to reduce peak flows and filter out pollutants associated with urban runoff originating from the south half of Mount Shasta City and an old lumber mill site. Serious erosion is occurring along Mill Creek, and in the last 10 years alone over 10,000 cubic yards of streambank have been lost. The project will consist of design, engineering, approvals, permits, construction, and monitoring associated with the retrofitting of an old mill pond to create a 3-acre stormwater detention basin, the excavation of a second 3-acre detention basin, the installation of vegetative filter areas associated with each detention basin, the construction of natural outlet channels, erosion repair along a portion of Mill Creek, and replanting of all disturbed areas associated with project construction.

713 **The Sierra Fund**
Micro-Investments with Macro-Impact: Storm Water Filtration System Program

Cooperating Entity 1: **Natural Heritage Institute** Cooperating Entity 2: **The Sierra Fund**
Grant Requested: **$955,000.00** Cost Match: **$220,000.00** Total Project **$1,175,000.00**

This Program allows the development and implementation of a suite of demonstration projects that reduce the discharge of pollutants from storm water or NPS in small communities with financial hardship in the Sierra Nevada region of the CALFED Bay Delta solution area. These implementation projects singularly are "micro-grants" in the $50,000 - $250,000 range, and are therefore ineligible for submission as stand alone projects. Cumulatively, these implementation projects will selected and developed to maximize water quality impact and to increase public education and support in small communities with financial hardship in the region.

716 **City of Lodi**
City of Lodi Groundwater Recharge Project

Cooperating Entity 1: **Woodbridge Irrigation District** Cooperating Entity 2: **0**
Grant Requested: **$1,039,000.00** Cost Match: **$343,000.00** Total Project **$1,382,000.00**

The City of Lodi proposes to prepare a groundwater model for the region underlying the City, identify alternatives for groundwater recharge using surface water, perform a feasibility study of the chosen alternatives, and design and construct a demonstration project. Primary objectives of the project include reducing dependence on groundwater to serve new development and implementation of a conjunctive use and groundwater program.

717 **Mountains Recreation and Conservation Authority (MRCA)**
WHITNEY CREEK RESTORATION

Cooperating Entity 1: **Santa Clara Watershed Recreation and Conservation Authority** Cooperating Entity 2: **0**
Grant Requested: **$1,540,000.00** Cost Match: **$0.00** Total Project **$1,540,000.00**

The Whitney Creek Restoration will restore the streambed and surrounding land of a tributary to the Santa Clara River. Degradation caused by 200 years of cattle ranching and other damaging human activities will be ameliorated by revegetation of native plant communities, removal of debris and invasive exotic species, and containment of large areas of animal waste. The project will result in enhanced riparian habitat, reduced soil erosion, and will support groundwater recharge in the Santa Clara River Watershed.

718 **City of Santa Clarita**
Implement the SCREMP Comprehensive Monitoring Plan to Assess River and Aquatic Life Health

Cooperating Entity 1: **Los Angeles County Department of Public Works Watershed Division** Cooperating Entity 2: **Friends of the Santa Clara River**

Grant Requested: **$277,000.00** Cost Match: **$60,000.00** Total Project **$317,500.00**

This program seeks to improve knowledge on the health of the Santa Clara River through regular and consistent monitoring.The City of Santa Clarita, in conjunction with Los Angeles County, Ventura County, and Friends of the Santa Clara River propose to implement the SCREMP Comprehensive Monitoring Plan to adequately monitor the health of the Santa Clara River. The Santa Clara River is one of the last natural rivers in Southern California.

719 **City of Santa Clarita**
Develop Implement and Assess a Nutrient Trading Program to Support the Nitrogen and Effects TMDL in the Santa Clara River

Cooperating Entity 1: **Los Angeles County Sanitation District** Cooperating Entity 2: **Ventura County Watershed Protection District**

Grant Requested: **$710,000.00** Cost Match: **$70,000.00** Total Project **$780,000.00**

The Nutrient Trading Program will develop, administer, facilitate and evaluate nutrient trading between point and non-point sources in the Santa Clara River Watershed. Nutrient trading will complement the nutrient TMDL being developed for this watershed. This program will help better manage and improve water quality in the Santa Clara River Watershed, an area that depends on Bay Delta imported water.

720 **Circuit Rider Productions Inc**
Riparian Restoration and Science-based Education in the Russian River Watershed

Cooperating Entity 1: **Kerry Williams** Cooperating Entity 2: **Mendocino Resource Conservation Districts**

Grant Requested: **$250,000.00** Cost Match: **$152,000.00** Total Project **$402,000.00**

The Riparian Restoration and Science-based Education in the Russian River Watershed Project proposes to engage students and the community in the restoration of native riparian habitat along salmonid-bearing streams in the Russian River Watershed. Project implementation will be accomplished by an environmental education and volunteer coordination program that incorporates high school students, landowners and the community in the planning, design, implementation and monitoring of the project.

721 **Santa Barbara Channelkeeper**
Stormwater Pollution Reduction and Assessment Project

Cooperating Entity 1: **County of Santa Barbara** Cooperating Entity 2: **Surfrider Isla Vista Chapter**

Grant Requested: **$255,000.00** Cost Match: **$37,000.00** Total Project **$292,000.00**

The purpose of this project is to promote the use of pervious paving surfaces to reduce the volume of stormwater runoff and the concomitant pollutant loading to waterbodies of the Santa Barbara Channel. Financial incentives will be provided to homeowners, small businesses, and others planning to pave areas smaller than 1 acre. Where possible, testing will be conducted before and after installation; baseline stormwater monitoring of major waterbodies will also be conducted.

722 **Earlimart Public Utilities District**
Earlimart Stormwater Drainage Air Quality Improvement and Recreation Project

Cooperating Entity 1: **Tulare County Redevelopment Agency** Cooperating Entity 2: **Earlimart School District**

Grant Requested: **$3,595,030.00** Cost Match: **$8,761,066.00** Total Project **$12,366,096.00**

Prevent flooding from any rainfall event less than or equal to a 10 year/ 10 day storm and expedite the removal of floodwaters from any greater event. Reduce surface and groundwater pollution prevention with the installation curb, gutter, sidewalk and routine street sweepeing and utilization of bio-filter channel to transport runoff to the stormwater basin. Shoulder stabilzation via curb, gutter and sidewalk and routine street cleaning will improve air quality by reducing aiborne particulate matter levels (PM-10). Existing terrestrial wildlife habitat will be preserved and enhanced for use by the school as a living nature studies laboratory. Dual purpose stormwater basins will also serve as recreational parks with athletic fields and passive activity areas.

723 **Public Service Research Program Univ. of California Davis**
Partnerships Program for Watershed Capacity Building

Cooperating Entity 1: **John Muir Institute of the Environment UC Davis** Cooperating Entity 2: **Community Development Graduate Group UC Davis**

Grant Requested: **$899,500.00** Cost Match: **$0.00** Total Project **$899,500.00**

UC Davis proposes to establish a "Partnerships Program for Watershed Capacity Building" that utilizes university expertise to fulfill CALFED Watershed Program objectives. The goal of the UC Davis Program is to enhance the ability of community-based partnerships to assess and manage their local watersheds by providing such partnerships with university-based technical, scientific, and organizational assistance.

724 **Emery Roe**
Lion Creek/ Lake Aliso Urban Storm Water Related Rehabilitation and Demonstration Project

Cooperating Entity 1: **Eastbay Watershed Center** Cooperating Entity 2:**Friends of Two Creeks**
Grant Requested: **$880,000.00** Cost Match: **$132,500.00** Total Project **$1,012,500.00**

We propose to rehabilitate Lake Aliso and Lion Creek within the Mills College campus from the deterioration caused by the excessive urban storm water run off and siltation that has occurred since the urbanization of the watershed upstream from us. We propose to make Lake Aliso a year round lake by installing a winter storm bypass channel, repairing the spillway over the dam, installing a bird island, revegetation of the lake and riparian areas on campus and the removal of concrete barriers within the creek. In addition we look forward to adding value to the wider coordination and rehabilitation of the watershed through our participation in the Eastbay Watershed

725 **ArcEcology (acting as Fiscal Agent)**
Permeability Assessment for the San Francisco Bay Watershed

Cooperating Entity 1: **ArcEcology** Cooperating Entity 2:**0**
Grant Requested: **$120,000.00** Cost Match: **$0.00** Total Project **$120,000.00**

This is a permeability study of the watersheds surrounding San Francisco Bay. Stormwater runoff potential comparing types of existing development with new development (based on current regulations for new development) will be provided on a sub-watershed basis, as well as for political jurisdictions (counties, municipalities, etc.). The resolution of the study will be based on the best available data, or with minimal supplementation (i.e., aerial photography). The resulting data (maps, GIS) will be made available in a format that is electronically distributable and readily accessible.

726 **University of California Davis**
Hydrologic Flowpaths in Oak Woodland Landscapes: Implications for Dissolved Organic Carbon and Nutrient

Cooperating Entity 1: **University of California Davis** Cooperating Entity 2:**University of California Davis**
Grant Requested: **$310,000.00** Cost Match: **$187,000.00** Total Project **$497,000.00**

We propose to investigate the temporal and spatial dynamics of hydrologic flowpaths across landscapes of four watersheds having different management strategies in the Sierra Nevada Foothills Research and Extension Center. We will study the how these flowpaths influence the export of dissolved organic carbon and nutrient to surface water bodies.

727 **San Joaquin County Resource Conservation District**
San Joaquin County and Delta Water Quality Improvement Project

Cooperating Entity 1: **Central Delta Water District** Cooperating Entity 2:**Stockton East Water District**
Grant Requested: **$3,583,883.00** Cost Match: **$445,000.00** Total Project **$3,908,488.00**

To create the San Joaquin County and Delta Water Quality Coalition. This coalition will coordinate three subwatershed groups and oversee compliance with the agricultural discharge waiver. To conduct monitoring for suspected agricultural chemicals in runoff, coordinate the reporting of data to the SWQCB and RWQCB, and to coordinate public outreach to achieve water quality goals as determined by monitoring criteria.

728 **Stockton East Water District (SEWD)**
Coordinated Calaveras River Basin Water Quality Improvemetn Project

Cooperating Entity 1: **San Joaaquin County and Delta Water Quality Coalition** Cooperating Entity 2:**Central Delta Water Agency**
Grant Requested: **$300,000.00** Cost Match: **$0.00** Total Project **$300,000.00**

This project builds upon the substantial watershed planning activities that have already been accomplished in the watershed, and will undertake key assessments that will provide an increased understanding of site-specific threats to water quality and key salmonid habitat resources. The project involves: water quality and habitat monitoring, stakeholder outreach and education, an agricultural water quality improvement program, a flow regime study, and an update of the existing watershed plan. The flow regime study is a significant component of the overall project cost, and will provide the basis for further discussion on improvement of stream conditions for salmonid resources.

729 **Central Delta Water Agency**
Coordinated Delta Water Quality Improvement Project

Cooperating Entity 1: **San Joaquin County and Delta Water Quality Coalition** Cooperating Entity 2:**Stockton East Water District**
Grant Requested: **$4,700,000.00** Cost Match: **$200,000.00** Total Project **$4,900,000.00**

As a subwatershed project to the San Joaquin County and Delta Water Quality Coalition, the coordinated Delta Water Quality Improvement Project seeks to help agricultural interests in the Delta Comply with the conditional discharge waiver for agriculture. This will be done with water quality monitoring while simultaneously conducting public outreach and education and implementing best management practices on irrigated agricultural land.

730 US Geological Survey
Genotoxicity of Stormwater in the San Joaquin River Watershed

Cooperating Entity 1: **University of California Davis Bodega Marine Laboratory** Cooperating Entity 2: **University of California Davis**

Grant Requested: **$900,000.00** Cost Match: **$0.00** Total Project **$900,000.00**

Our project determines the source, timing, and identity of contaminants causing genotoxicity in fish and a positive response in the Ames mutagenicity assay in the San Joaquin River watershed. The results of this study will help to fill gaps in knowledge on toxicity of unknown origin and provide valuable information on current or new contaminants of concern for monitoring programs and watershed

731 City of Carlsbad
Agua Hedionda Lagoon Bacteria Source Identification and Water Quality Improvement

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$565,200.00** Cost Match: **$84,780.00** Total Project **$649,980.00**

The Project will improve water quality through the implementation of comprehensive bacteria reduction measures in the Agua Hedionda basin and lagoon. Implementation of this Project would take place with participation from all users of this valuable north San Diego County water resource. The stakeholder groups would participate in this project, as well as, involve technical experts to advise them on the various components of the project.

735 Resource Conservation District of Monterey County
Farm Runoff Prevention and Treatment: A Focussed Technical Assistance Program in the Salad Bowl

Cooperating Entity 1: **Natural Resources Conservation** Cooperating Entity 2: **Center for Agroecology and Sustainable Food Systems**

Grant Requested: **$900,000.00** Cost Match: **$178,000.00** Total Project **$1,078,000.00**

Agricultural operations contribute $3 billion to the Monterey County economy and significant non-point source pollution to its waterbodies, particularly the Pajaro and Salinas Rivers and the sloughs that drain to Old Salinas River Channel Lagoon, Elkhorn Slough and Moro Cojo Slough. The RCD of Monterey County will provide technical assistance to agricultural landowners and growers to facilitate the installation of water quality improvement practices such as sediment basins, grassed waterways and biotechnical stream bank stabilization. The project area is Monterey County's own fertile crescent between Highway 101 and the Monterey Bay, but the effort will focus on tributaries parallel to primary transportation corridors to optimize the visibility and educational impact of the project and to facilitate the evaluation of project effectiveness by water quality monitoring.

737 Delta Protection Commission
Delta Water Quality Improvement Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$492,000.00** Cost Match: **$0.00** Total Project **$492,000.00**

The Delta Water Quality Improvement Project will conduct a community-based educational program to promote awareness of water quality, and implement locally-adapted water quality solutions within the Legal Delta. The Delta Protection Commission will facilitate a watershed-wide water quality planning, implementation, and monitoring process, and coordinate the participation of multiple

738 San Francisco Estuary Institute
Status Trends and Outreach regarding Exotic Organisms in the San Francisco Bay/Delta Watershed

Cooperating Entity 1: **San Francisco Estuary Project** Cooperating Entity 2: **University of California Davis/Department of Environmental Science and Policy**

Grant Requested: **$410,000.00** Cost Match: **$0.00** Total Project **$410,000.00**

The project's overall objective is to develop information on exotic organisms in the San Franciso Bay watershed, including (1) an updated review of status and trends in the Bay, (2) an initial report on exotics in the freshwater nontidal waters (rivers and creeks) tributary to the Bay, and (3) a quantitative review of changes in absolute and relative abundance over time, including both the Bay and the Delta; and to communicate that information--including information on the distribution and impacts of these organisms, management efforts, and information needed to identify them--to relevant groups through directed outreach activities and a website.

739 San Francisco Estuary Institute
Developing a Bioassay for the Efficacy of Ballast Water Treatment Based on the Representative Resistant Organisms (RRO) Approach

Cooperating Entity 1: **North Carolina State University/Center for Applied Aquatic Ecology** Cooperating Entity 2: **0**

Grant Requested: **$398,000.00** Cost Match: **$110,000.00** Total Project **$508,000.00**

Ballast water is by far the most important vector discharging exotic species into the San Francisco Estuary and other coastal waters. Although there is broad consensus on the need to develop and implement effective treatment technologies to remove or kill exotic organisms in ballast water, progress has been stalled by the lack of an accepted bioassay method for evaluating the efficacy of treatment and setting standards. This project will develop an overall approach based on Representative Resistant Organisms (RROs) of critical functional groups; and as an example of that approach, will develop recommendations for test organisms, culture methods and viability assessment protocols for the important functional groups of motile dinoflagellates and dinoflagellate cysts.

740 San Francisco Estuary Institute
Sediment Erosion and Deposition at the Bay Margin: History Biological Influences and Impacts on Natural

Cooperating Entity 1: **University of California Berkeley/Aquatic Ecology Laboratory** Cooperating Entity 2: **California Coastal Conservancy/Invasive Spartina Project**

Grant Requested: **$490,000.00** Cost Match: **$281,600.00** Total Project **$771,600.00**

This project will assess historic changes in sediment deposition and erosion at saltmarsh fronts and tidal channels, potential storage and release of legacy pollutants related to these changes, and biological influences on and impacts from these changes; and lay the groundwork for future monitoring. Specifically it will (1) map and measure the advance and retreat of the bayward edges and channel banks of vegetated marshlands from survey maps and aerial photographs, over intervals from the 1850s to the present; (2) estimate the volume of sediment stored or released by these changes and the potential contamination by legacy pollutants; (3) set up a network of deposition/erosion monitoring stations; (4) develop and map data on biological factors thought to influence deposition/erosion rates; (5) develop data on changes in local watershed land use patterns that affect sediment supply; (6) develop and map data on changes in a natural resource (oysters) affected by sediment deposition; and (7) analyze the data for correlations between changes in watershed land use, marsh deposition/erosion rates, the distribution of biologic influences, and impacts to a key biologic resource.

741 Pajaro River Committee of the Sierra Club
Restoration of Pajaro River Watershed to Reduce Flooding in Lower Reaches of the Pajaro River

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$295,000.00** Cost Match: **$35,000.00** Total Project **$330,000.00**

This project will develop the scientific record necessary to evaluate whether and how flow and sediment management strategies in the upper watershed would reduce the peak flood flow entering the lower reach, so that flood protection may be achieved without aggressive channel maintenance that scours all aquatic habitat. Finally, this project will result in the establishment of the Pajaro River Watershed Board which will serve as a town hall for public agencies and private interests to identify and implement opportunities for improved management of the Pajaro for all beneficial uses.

742 County of Los Angeles Flood Control District
North Santa Monica Bay Water Quality Improvement

Cooperating Entity 1: **City of Malibu** Cooperating Entity 2: **Caltrans District 7**

Grant Requested: **$1,900,000.00** Cost Match: **$400,000.00** Total Project **$2,300,000.00**

The USEPA is expected to approve the Santa Monica Bay Wet Weather Bacteria TMDL in June 2003. The proposed project represents the first phase of Jurisdictional Group 1's (of which the County of Los Angeles is lead) iterative and adaptive approach to improve water quality in North Santa Monica Bay and ultimately meeting the TMDL's requirements. The proposed project will result in the compilation of a prioritized list of projects as well their implementation to achieve measurable water quality improvement. These projects may include the installation of disinfection units, construction of wetlands, upgrade of aging or inadequate septic systems, or other best management practices that have shown promise in reducing bacteria loading to receiving waterbodies.

743 Southern California Coastal Water Research Project
Application of Chiral Gas Chromatography and Isotope Ratio Mass Spectrometry for Source Identification in Coastal Watersheds

Cooperating Entity 1: **California State University-San Bernardino** Cooperating Entity 2: **University of California-Riverside**

Grant Requested: **$300,261.00** Cost Match: **$52,987.00** Total Project **$353,248.00**

We will apply the relatively new analytical tecniques of chiral gas chromatography and compound-specific isotope ratio mass spectrometry to the identification of the sources of pesticides and related compounds in the Newport Bay/San Diego Creek Watershed. The data obtained will be used to determine the relative importance of different sources within the watershed and support implementation of the TMDL mangement objectives.

744 Mendocino Wildlife & Watershed Alliance
Jack of Hearts Creek Sediment Reduction Project (Phase II)

Cooperating Entity 1: **California Dept. of Fish and Game** Cooperating Entity 2: **0**

Grant Requested: **$160,450.00** Cost Match: **$16,620.00** Total Project **$250,000.00**

Complete "Phase II" of the sediment reduction project along Jack of Hearts Creek. Start a monitoring program to include: creek flow, temperature, turbidity and salmon populations in Jack of Hearts Creek, train and educate volunteers. Incorporate all new and old information in GIS format and make available to the public. Educate and outreach via a newsletter.

745 **Los Angeles and San Gabriel Rivers Watershed Council**
Watershed-based multi-use facility for treating urban runoff in LA County

Cooperating Entity 1: **Los Angeles County Department of Public Works** Cooperating Entity 2: **Building Industry Association/CICWQ**

Grant Requested: **$4,342,500.00** Cost Match: **$1,100,000.00** Total Project **$5,442,500.00**

This project will include design, construction, and monitoring/assessment of a model facility to demonstrate the validity and benefits of regional, multi-use approaches to treat urban runoff in the San Gabriel River Watershed. The model project will be a watershed-based facility that treats dry- and wet-weather urban runoff from redevelopment and existing (developed) areas within a sub-basin in the watershed. The facility will also provide multi-use benefits, which may include local groundwater recharge, enhanced recreational opportunities, aesthetic benefits, and greenspace/habitat in a redeveloping community.

746 **City of Oceanside - Water Utilities Department**
Loma Alta Creek Sediment Removal and Control

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$1,328,000.00** Cost Match: **$332,000.00** Total Project **$1,660,000.00**

Sedimentation has been identified in the Loma Alta Creek Watershed Management Plan as a serious problem that contributes to benthic community degradation and flood risk. The project will quantify the sedimentation problem, design creek bank stabilization and other sediment control measures, develop a sediment/habitat management plan in coodination with resource and regulatory agencies, and obtain permits to implement agency approved sediment removal and sediment control measures.

747 **City of Oceanside - Water Utilities Department**
Myers Property and Adjacent Creek Habitat Restoration

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$445,250.00** Cost Match: **$79,750.00** Total Project **$525,000.00**

The City of Oceanside recently acquired the Myers property west of El Camino Real that is adjacent to Loma Alta Creek. The project includes restoring and protecting coastal sage scrub habitat, restoring riparian habitat, erosion control, and enhancing the habitat linkage between riparian and upland habitat.

748 **City of Oceanside - Water Utilities Department**
Loma Alta Creek Bacteria Source Identification and Control

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$361,250.00** Cost Match: **$63,750.00** Total Project **$425,000.00**

Loma Alta Slough and the Pacific Ocean adjacent to the mouth of Loma Alta Creek are 303(d) listed as impaired water bodies from bacteria indicators. Monitoring conducted to date has indicated elevated concentrations throughout the watershed and sources have not yet been identified. This project will identify bacteria sources and implement control measures.

749 **Chico Unified School District**
Watershed Education Program

Cooperating Entity 1: **Adopt-A-Watershed** Cooperating Entity 2: **Region 2 CREEC (CA. Regional Env. Ed. Community Network)**

Grant Requested: **$344,997.00** Cost Match: **$0.00** Total Project **$344,997.00**

This project is the continuation of the highly successful Watershed Education Program which has trained over 250 teachers in the Butte County Area and facilitates stream monitoring and revegetation programs at sites in Butte County. WEP is an active member of the Adopt-AWtshedLeadership Network and maintains a resource library for teachers in the region.

750 **Southern California Association of Governments (SCAG)**
GIS Data-Sharing for Water Quality Management

Cooperating Entity 1: **Los Angeles & San Gabriel Rivers Watershed Council** Cooperating Entity 2: **0**

Grant Requested: **$327,250.00** Cost Match: **$48,200.00** Total Project **$375,500.00**

The project will develop a technical system and protocol for exchange of GIS information among agencies that have programmatic interests in nonpoint source pollution prevention, and the sharing of that information with a wider community of watershed stakeholders engaged in finding solutions to pollution issues. The system will address many of the concerns that GIS managers have about proprietary restrictions and quality control of data, thereby greatly facilitating the timeliness and responsiveness of data requests. The project will focus on watershed information (eg, characterization of the storm drain system and hydrographic data) and water quality information (eg, monitoring locations and data series) in order to provide utility in meeting TMDLs and addressing clean water objectives.

752 **Sacramento Watershed Action Group**
Shasta College Erosion and Sediment Control Training Institute

Cooperating Entity 1: **Shasta College** Cooperating Entity 2:**0**
Grant Requested: **$260,000.00** Cost Match: **$100,000.00** Total Project **$360,000.00**
The project is to design and build an Erosion and Sediment Control Training Facility on the Shasta College campus. This facility would be the only one of its kind and would provide training in effective BMP installation for Shasta College students, AGC members, Contractors, CPESC's, CPSWQ's, and any other interested parties. Additionally, the site would be used to test various products for effectiveness and to implement new ideas.

753 **Riverside County Transportation Department**
Santa Ana River Watershed within Riverside County

Cooperating Entity 1: **City of Riverside** Cooperating Entity 2:**City of Corona**
Grant Requested: **$425,000.00** Cost Match: **$75,000.00** Total Project **$500,000.00**
setup a management plan, identify sources of pollution, cleanup pollutant sources, reduce and control nonpoint source pollution, and implement a monitoring system.

754 **Contra Costa Water District**
Upper Kellogg Creek Riparian Zone Protection Project

Cooperating Entity 1: **N/A** Cooperating Entity 2:**0**
Grant Requested: **$400,290.00** Cost Match: **$0.00** Total Project **$400,290.00**
Eliminate domestic stock from 2.5 miles of perennial tributary by fencing a 13,200 foot long and 400 foot wide buffer zone (121 acres). Create 3-hardened crossings for domestic stock and 3-watering facilities outside the buffer zone.

755 **U.S. Geological Survey**
Evaluation of groundwater nitrate inputs to the lower San Joaquin River and their sources

Cooperating Entity 1: **0** Cooperating Entity 2:**0**
Grant Requested: **$850,000.00** Cost Match: **$0.00** Total Project **$850,000.00**
The objective of this project is to quantify the amount of groundwater accretions to the lower San Joaquin River and its nitrate concentration through the use of multiple lines of evidence. In addition, isotopic and optical characteristics of the groundwater will be compared to various endmembers to identify the sources of nitrate in the groundwater accretions. To achieve the objective, three sampling approaches will be used: continuous reconnaissances by boat, synoptic samplings at 30 sites, and the installation of nested piezometers on the banks and in the river at 6 sites.

756 **City of Westlake Village**
Foxfield Trash Capture Project

Cooperating Entity 1: **Westlake Lake Management** Cooperating Entity 2:**0**
Grant Requested: **$250,000.00** Cost Match: **$37,750.00** Total Project **$287,750.00**
All of the urban runoff from the 101 Freeway and Lindero Canyon Road, the industrial/commercial land uses north of the freeway, and from the densest area of residential land use in the City is collected in a single flood control channel that outfalls into Westlake Lake. This project proposes to install a full trash capture and oil absorbing device in this flood control channel at the "Foxfield Drain," a double box culvert that transmits the flows from the flood channel into the Lake. Once installed, the City will inspect the device weekly, remove captured materials and perform on-going maintenance.

758 **San Jose State University Foundation on behalf of Moss Landing Marine Laboratories**
Consolidated Ambient Monitoring and Assessment for Southern California Coastal Watersheds

Cooperating Entity 1: **University of California - Davis** Cooperating Entity 2:**CA Dept of Fish and Game**
Grant Requested: **$2,432,106.00** Cost Match: **$0.00** Total Project **$2,432,106.00**
The proposed project is a cooperative effort between San Jose State University Foundation, RWQCBs 4, 8, and 9, CA Dept of Fish and Game, University of California Davis, and the California Coastal Commission to implement a consistent and comprehensive watershed monitoring and assessment program in the southern California coastal watersheds of Regions 4, 8, and 9. High priority watersheds are targeted for assessment of chemicals of concern and biological impacts. Optimized use of funds includes utilizing existing infrastructure of other SWRCB programs, established relationships with laboratories and facilities in the respective regions, and extensive community-based partnerships for citizen monitoring activities and stakeholder group public participation and coordination.

759 **Contra Costa County Flood Control & Water Conservation District on behalf of the Contra Costa Clean Water**
Integrating Water Quality Hydromodification and Flood Control Solutions into a Comprehensive Model Master

Cooperating Entity 1: **Contra Costa County Flood Control & Water Conservation District** Cooperating Entity 2: **21 Co-permittees to the Contra Costa Clean Water Program**

Grant Requested: **$1,100,000.00** Cost Match: **$0.00** Total Project **$0.00**

The purpose of this project is to prepare a comprehensive Watershed Master Plan for a selected subwatershed in Contra Costa County, integrating water quality, hydromodification, flood control and habitat protection goals, that will serve as a model for the development of watershed master plans throughout the Region and State. This project will result in the development of a model process for analyzing, planning and implementing an integrated mix of on-site, in-stream, and regional solutions that effectively address the specific needs and priorities of a diverse group of stakeholders within the watershed. This process will include guidance for determing the best type of management structure to guide the development of a watershed master plan for any urban subwatershed, which typically involves multiple local agencies and a diverse group of stakeholders.

760 **Interagency Ecological Program**
Bay Delta and Tributaries Data Access Sharing Integration and Managment Proposal

Cooperating Entity 1: **Moss Landing Marine Laboratories** Cooperating Entity 2: **State Water Resources Control Board**

Grant Requested: **$492,800.00** Cost Match: **$176,000.00** Total Project **$668,800.00**

The Bay Delta and Tributaries Project combines environmental data concerning the San Francisco Bay and tributaries into a data management system and provides public access to that data. The Division of Environmental Services in collaboration with IEP, CVPIA-CAMP, CALFED DW, CALFED ERP, Moss Landing Marine Labs, RWQCB, and other Bay Delta groups are concerned with water quality, wildlife preservation and the restoration of the Delta. The types of data collected and managed by this project help accomplish these goals. This proposal will further expand BDAT outside of the Bay Delta and Tributaries region into other parts of the State.

761 **Westside Resource Conservation District**
Stewards of the Arroyo Pasajero: Restoring the Land to Protect the Aqueduct

Cooperating Entity 1: **Stewards of the Arroyo Pasajero** Cooperating Entity 2: **CA Department of Fish and Game**

Grant Requested: **$259,500.00** Cost Match: **$75,500.00** Total Project **$335,000.00**

This project is to provide professional and financial assistance to landowners in the Arroyo Pasajero and Domengine watersheds through the development of Ranch and Farm Plans and Monitoring Plans and for the implementation of projects and monitoring activities in those plans. Customized Farm and Ranch Plans and Monitoring Plans have been developed for landowners involved in the Stewards of the Arroyo Pasajero CRMP that prescribe best management practices, which, when implemented improve the watersheds by reducing sedimentation transport downstream, repair eroded and denuded streambanks, reduce flooding into the California Aqueduct that delivers drinking water to millions of people in southern California, and reduce damage to water treatment plant for the city of Huron and other westside communities.

762 **Redwood Community Action Agency**
Assessment of turbidity levels and effects in northcoast streams and develpoment of numeric targets

Cooperating Entity 1: **Randy Klein Consulting** Cooperating Entity 2: **0**

Grant Requested: **$515,000.00** Cost Match: **$100,000.00** Total Project **$615,000.00**

This project will assess water quality in northcoast watersheds (Region 1) by compiling data sets on turbidity, suspended sediment, and discharge for all available turbidity recording gaging stations (approx. 20) and performing analyses for comparing basins. It will also compile GIS data on watershed characteristics, including timber harvest, roads, etc., and quantitatively assess the role of land use in turbidity duration. Finally, turbidity data sets will be used to assess effects on salmonids and recommend turbidity criteria for possible use in regulatory standards, TMDLs, and basin plans. This project will build upon a recent study for EPA by R. Klein, one of the principals in this proposal.

763 **The Nature Conservancy**
Southern California Conservation Forum (SCCF) - Santa Margarita River Watershed Protection Project

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$5,015,000.00** Cost Match: **$3,000,000.00** Total Project **$8,015,000.00**

The Santa Margarita River Watershed Protection Project focuses on the restoration and perpetuation of the health of the watershed to reduce chronic flooding, set up flood control measures, increase water quality, protect and enhance riparian and wetland habitats, and decrease the disruption of military training and operations at Marine Corps Base Camp Pendleton. The SCCF group (Southern California Conservation Forum) was formed to assist in buffering military lands, assure the Santa Ana Mountains-Palomar Mountains habitat corridor, and coordinate watershed and habitat planning protection efforts among the military and adjacent counties in addition to leveraging policies, funds and expertise.

764 **City of Santa Barbara**
Clean Water Business Training and Certification Program

Cooperating Entity 1: **County of Santa Barbara** Cooperating Entity 2: **0**

Grant Requested: **$250,000.00** Cost Match: **$72,500.00** Total Project **$322,500.00**

The Clean Water Business Training and Certification Program will target restaurant, mobile cleaning and automotive-related industries that improperly wash materials, tools, and structures outdoors. Through training and technical assistance, businesses would voluntarily adopt clean-water best management practices identified for their specific industry leading to the reduction of polluted runoff in six major watersheds of the South Coast with known water quality problems.

765 **Klamath Community Services District**
Klamath Community Services District Wastewater Facilities Plan

Cooperating Entity 1: **Yurok Indian Tribe** Cooperating Entity 2:**0**
Grant Requested: **$315,000.00** Cost Match: **$0.00** Total Project **$315,000.00**
Demand on the Klamath CSD wastewater system is growing and the existing community leach field system is impacting ground and surface water. The Wastewater Facilities Plan will be developed to address future growth potential of the region and identify and select the most appropriate future wastewater management system to provide needed capacity while protecting the environment.

766 **City of Santa Cruz**
Characterizing and reducing pollutants from Community car Washes and Tallow storage

Cooperating Entity 1: **County of Santa Cruz Departments of Sanitation and Public Works** Cooperating Entity 2:**Save Our Shores**
Grant Requested: **$380,000.00** Cost Match: **$65,000.00** Total Project **$425,000.00**
Provide containment for community car wash fundraisers, and Tallow storage bins to function as diversion from stormwater. Research data on pollutant concentrations in runoff from these sources; including cars washed on grassy surfaces and those directly discharging to a storm drain system. Research the feasibility of providing a centralized clarifier sludge dewatering system in Santa Cruz County. Educate the public about the water quality impacts due to washing cars and describe safe car washing alternatives.

767 **San Diego BayKeeper**
Project SWELL -- Stewardship: Water Education for Lifelong Leadership

Cooperating Entity 1: **City of San Diego - Storm Water Pollution Prevention Program** Cooperating Entity 2:**Port of San Diego**
Grant Requested: **$400,000.00** Cost Match: **$0.00** Total Project **$690,000.00**
Develop and implement Project SWELL (Stewardship: Water Education for Lifelong Leadership) water quality and pollution prevention curricula that will reach 140,000 students in 182 City Schools over the next three years and implement complementary public outreach and education campaign aimed at providing dramatic and long-term improvements in local water quality.

768 **Trinity County Planning Department Natural Resources Division**
Implementation of Trinity River TMDL - Trinity River Bridges Project Implementation Part 2

Cooperating Entity 1: **Trinity River Restoration Program/US Bureau of Reclamation** Cooperating Entity 2:**U.S. Bureau of Land Management**
Grant Requested: **$1,197,056.00** Cost Match: **$1,185,250.00** Total Project **$2,382,306.00**
The primary purpose of the proposed project is to modify or replace, as necessary, the existing Bucktail and Poker Bar bridges located on the Trinity River in order to accommodate possible futrue operational changes to the Trinity River Division of the Central Valley Project. This project is one part of a larger effort to restore the anadromous fishery of the Trinity River as described in 2000 Record of Decision for the Trinity RIver. This project will increase capacity downstream of Lewiston Dam, providing flexibility for implementing a variety of potential Trinity River fishery flow alternatives, allowing for high-efficiency sediment transport in the Trinity River to maximize the amount of sediment transported so that Trinity River can be removed from California's Clean Water Act Section 303(d) Impaired Waterbodies, and facilitating the recovery of fish and wildlife resources that are listed as threatened and endangered.

769 **California State University Sacramento Foundation**
CWAM Demonstration Project- Assessment of the Dry Creek Watershed (Sacramento and Placer Counties)

Cooperating Entity 1: **Placer County** Cooperating Entity 2:**Dry Creek Conservancy**
Grant Requested: **$1,273,668.00** Cost Match: **$0.00** Total Project **$1,273,668.00**
This project will use Dry Creek Watershed as a demonstration site to evaluate field techniques and data integration methods of the California Watershed Assessment Manual (CWAM) program. Work described in this proposal will independently test the approaches described in the CWAM manual, and will provide feedback for the UC Davis developers and EPA personnel who are involved with the CWAM project. The major "stand-alone" objective of this project is to identify and rank stressors in the Dry Creek Watershed that affect spawning habitat and juvenile development for listed salmonids, and assist landowners and managers in the Dry Creek area to make informed decisions about restoration projects.

770 **Deer Creek Watershed Conservancy**
Deer Creek Watershed Stewardship: Phase II

Cooperating Entity 1: **Ca Dept of Fish and Game** Cooperating Entity 2:**Lassen National Forest**
Grant Requested: **$107,000.00** Cost Match: **$0.00** Total Project **$107,000.00**
This project will provide for a watershed coordinator that will provide a single point of contact for information exchange and reach out into the community, involving the public in the decision making process. A coordinator can also provide the framework for establishing and spearheading locally led decision-making among the stakeholders. Water monitoring will be utilized to characterize and define the sources of pollution to the surface water, conduct sampling during storm events and irrigation season, measure BMP effectiveness, and revise the monitoring plan to incorporate results.

771 **San Francisco Estuary Institute**
Coordination of a Mercury Science and Management Strategy for the Bay-Delta Watershed

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$1,250,000.00** Cost Match: **$0.00** Total Project **$1,250,000.00**

This proposal would provide three years of funding for a full-time Mercury Coordinator for the Bay-Delta watershed. The overall function of this Coordinator would be to facilitate adaptive management of the mercury problem through establishing mechanisms (committees, annual meetings, annual reports, a quality assurance program, a data management plan, and a peer review panel) to enhance the flow of reliable information among managers, engineers, and environmental scientists conducting mercury remediation, ecological restoration, and mercury monitoring and research.

772 **City of Davis**
Deep Water Well Replacment Project To Improve Drinking Water and Wastewater Discharge Quality into Bay-Delta System

Cooperating Entity 1: **0** Cooperating Entity 2: **0**
Grant Requested: **$1,863,750.00** Cost Match: **$1,863,750.00** Total Project **$3,727,500.00**

Construct 3 new deep wells with better source water quality to: improve drinking water quality, reduce the use of consumer water softeners, improve wastewater quality discharges, improve wastewater quality to allow for up to 100% re-use for ag irrigation and wetlands purposes, and reduce salt loading on the Bay-Delta System. These new deep wells will allow the city to produce 80% or more of its drinking water from higher quality deep wells and allow older lower quality wells to be destroyed.

773 **California Sustainable Winegrowing Alliance**
The Code of Sustainable Winegrowing Practices: Implementing Practice to Improve Water Quality and Measuring the Capacity for Effective Watershed Management on a Statewide Basis

Cooperating Entity 1: **Wine Institute** Cooperating Entity 2: **California Association of Wine**
Grant Requested: **$4,650,000.00** Cost Match: **$0.00** Total Project **$4,650,000.00**

Through statewide assessment and action plan workshops with winegrowers and winemakers, the project will provide assessment tools, targeted educational materials, and technical assistance to speed the adoption of sustainable practices and process that improve water quality and increase the capacity for effective watershed management. Project action items also address improving the state of watershed assessment and monitoring approaches and demonstrating that community based partnerships, regional benchmarking, statewide coordination, and state and federal partnerships can be integrated to be an effective and efficient model for achieving significant water quality benefits.

774 **City of St. Helena**
YORK CREEK DAM REMOVAL AND STREAM RESTORATION PROJECT

Cooperating Entity 1: **US ARMY CORPS OF ENGINEERS SF DISTRICT** Cooperating Entity 2: **California Dept. of Fish and Game and DWR**
Grant Requested: **$750,000.00** Cost Match: **$2,737,075.00** Total Project **$3,999,800.00**

The York Creek Dam and Diversion Structure Removal and Stream Restoration Project will increase steelhead production by restoring 2.5 miless of spawning and rearing habitat, restrore more natural biological and fluvial processes (i.e. reduce sediment load) and restore approximately 2 acreas of shaded aquatic riverine habitat to the York Creek corridor. The project is a joint effort of the City of St. Helena, the US Army Corps of Engineers, the Department of Fish and Game, and Department of Water Resources. The City seeks Prop 13 NPS Grant funds to fill funding gaps in this collaborative project.

775 **Yuba County Resource Conservation District**
Coordinated Feather River Basin Water Quality Improvement Project

Cooperating Entity 1: **Yuba County Water Agency** Cooperating Entity 2: **Ducks Unlimited**
Grant Requested: **$2,093,900.00** Cost Match: **$0.00** Total Project **$2,617,375.00**

This project will take a subwatershed approach to establishing a water quality program using BMP's, public outreach and monitoring. In addition, reporting and analysis will help focus future efforts on areas of highest concern.

776 **DeltaKeeper**
Evaluation of Refractory TOC Sources and Control in the Delta and Its Tributaries

Cooperating Entity 1: **G. Fred Lee & Associates** Cooperating Entity 2: **Additional Cooperating Entities likely to be developed among TOC**
Grant Requested: **$5,000,000.00** Cost Match: **$0.00** Total Project **$5,000,000.00**

This project will determine the sources, character, fate and transport of TOC in the Delta tributaries and the Delta. It will also determine the potential to control refractory TOC at its sources.

777 City of Downey
Lakewood Boulevard Improvement Project

Cooperating Entity 1: **Los Angeles County Dept. of Public Works** Cooperating Entity 2: **0**

Grant Requested: **$2,180,000.00** Cost Match: **$3,325,000.00** Total Project **$5,365,000.00**

Project incorporates a street median that will act as a natural bio-filtration system to remove roadway pollutants, will provide access control and traffic safety. The design incorporates a roadway cross section that instead of being crowned in the center, with storm water runoff and pollutants accumulating in the side gutters, to an inverted roadway that forces storm water and pollutants towards the median bio-filtration swale that is below the roadway surface. The swale will provide passive treatment based on settling, filtration, percolation, biodegradation, and vegatative uptake.

778 Tom Schroyer
Central Valley Fish Harvest and Consumption

Cooperating Entity 1: **Ca. Department of Fish and Game** Cooperating Entity 2: **U.S. Fish and Wildlife Service**

Grant Requested: **$959,272.00** Cost Match: **$261,051.00** Total Project **$1,220,323.00**

From the Sacramento, Feather, and American rivers, information will be collected on a monthly basis for a minimum of 2 years on all fish species and number of each species harvested, number of each species consumed, amount and frequency of consumption by species, ethnicity of angler along with additional information requested by the Central Valley Regional Water Quality Control Board (CVRWQCB). This information will aid the CVRWQCB in making risk assessments from consumption of various species of fish and in establishing TMDL's, reflective of that risk of consumption of fish. The program will be closely coordinated with the CVRWQCB. This would be an expansion of an existing angler harvest program that is jointly funded by Department of Fish and Game and U.S. Fish and Wildlife Service.

779 California Urban Water Agencies
Watershed Monitoring and Technical Studies to Support Development of Central Valley Drinking Water Policy

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$970,000.00** Cost Match: **$375,000.00** Total Project **$1,345,000.00**

This project involves conducting the technical studies needed to develop a drinking water policy for the Central Valley, as called for by the CALFED Record of Decision (pg. 67). A major focus of the project is gathering, assembling and analyzing monitoring data for drinking water consituents of conern, which may arise from a variety of sources, and evaluating potential control alternatives. Formal collaboration with existing and/or proposed watershed and monitoring programs that address drinking constituents of concern will occur before full proposals are submitted. This project is part of an ongoing effort, led by an interagency work group, to develop the technical foundation necessary to establish a comprehensive Central Valley Drinking Water Policy. Ongoing outreach is part of the proposal.

780 California Coastkeeper Alliance
San Luis Obispo Coastkeeper Citizen Water Quality Monitoring Program

Cooperating Entity 1: **Central Coast Ambient Monitoring Program at RWQCB** Cooperating Entity 2: **Santa Monica Baykeeper**

Grant Requested: **$563,000.00** Cost Match: **$0.00** Total Project **$563,000.00**

The goal of the San Luis Obispo Coastkeeper (SLO Coastkeeper) Citizen Water Quality Monitoring Program (CWQMP) is to develop a regional monitoring program focusing on priority monitoring needs in the coastal watersheds between the Monterey Bay National Marine Sanctuary and Point Conception and to encourage widespread awareness and recruitment of volunteer support from the central coast community. The Program will be developed cooperatively with the Central Coast Regional Water Quality Control Board (RWQCB) and the Central Coast Ambient Monitoring Program (CCAMP). The primary focus of the program is to support RWQCB development of TMDLs and implementation of plans for meeting TMDLs throughout the region that address 303(d) listed water bodies. Funding is requested to suppor the program for three years, starting 2004.

781 Dana Adobe Nipomo Amigos Inc. (D.A.N.A.)
Nipomo Creek Watershed Acquisition (Grisingher & Patterson Properties)

Cooperating Entity 1: **Land Conservancy of San Luis Obispo County** Cooperating Entity 2: **Central Coast Salmon**

Grant Requested: **$1,687,000.00** Cost Match: **$563,000.00** Total Project **$2,250,000.00**

DANA proposes to acquire fee title to 140 acres of largely undeveloped land within the Nipomo Creek watershed which contains a portion of the creek, two significant tributaries, creek floodplain and surrounding mesa blufftop and hills. A primary purpose of the proposed acquisition is to enable the management, preservation and restoration of the watershed lands and riparian corridor within project site boundaries, and to make ongoing water quality monitoring possible.

782 **California Geological Survey (Division of the Department of Conservation)**
Identifying Geologic and Geomorphic Controls on Sedimentation Delivery and Migration in the Cow Creek Watershed Shasta County

Cooperating Entity 1: **California Department of Fish and** Cooperating Entity 2: **Western Shasta Resource Conservation District**

Grant Requested: **$225,000.00** Cost Match: **$0.00** Total Project **$225,000.00**

Analyse and interpret a time-series of aerial photographs covering the watershed to distinguish between those parts of the watershed that have a high potential sediment delivery to watercourses, those parts of the watershed that are inherently stable and unlikely to deliver measurable sediment to watercourses, and those parts of the watershed that may be somewhat unstable and may need further evaluation prior to reaching a conclusion on relative stability. This subdivision of the watershed and associated ArcInfo Geographic Information System (GIS) based data would be useful in an empirical sediment budget, in a mechanistic or modeled sediment budget, or in a simple ranking of the landscape as to the relative risk/propensity for sediment delivery, any of which could be incorporated into the land management activities within the Cow Creek Watershed.

785 **San Francisco Public Utilities Commission**
Urban Stormwater Flow Reduction Methods

Cooperating Entity 1: **Surfrider Foundation San Francisco Chapter** Cooperating Entity 2: **California Coastal Commission**

Grant Requested: **$960,000.00** Cost Match: **$215,000.00** Total Project **$1,175,000.00**

Pilot testing and implementation of methods for reducing the volume of stormwater runoff entering the combined sewer system. The primary goal is to protect and restore water quality by decreasing the volume and frequency of overflows from the sewers. Related goals are recharge of the groundwater for potential reuse (and to prevent continued subsidence of Lake Merced) and environmental enhancement through incorporation of "low impact design" features in new projects.

786 **Colusa Basin Drainage District**
Broken Box Ranch Stormwater Pumpback and Retention Project

Cooperating Entity 1: **Wildlands Inc.** Cooperating Entity 2: **Ducks Unlimited Inc**

Grant Requested: **$542,650.00** Cost Match: **$0.00** Total Project **$542,650.00**

This project will test a pumpback return system and a 165 acre holding basin to determine if stormwater runoff from rice can be retained within the Luraline Creek drainage and not discharged to the Colusa Basin Drain. In addition, the Project will test five (5) different mixtures of grasses, sedges and wetland plants to determine if they can reduce concentrations of rice pesticides in stormwater runoff. A 77-acre adjoining rice commercial rice field will be used for baseline data.

787 **Garden Highway Mutual Water Company A California Non-Profit Corporation**
Coordinated Sutter Basin Water Quality Improvement Project

Cooperating Entity 1: **Ducks Unlimited** Cooperating Entity 2: **Coalition for Urban/Rural Environmental Stewardship (CURES)**

Grant Requested: **$1,946,869.00** Cost Match: **$0.00** Total Project **$1,946,869.00**

The project will work with irrigated agriculture and other groups within the Sutter Basin Watershed to implement a water quality program that will improve the beneficial uses of the Sutter Bypass and the Sacramento River by implementing education and outreach programs and best management practices to meet water quality objectives. Education and outreach will be tracked and best management practices will be monitored to measure their effectiveness in reducing pollutants and improving water quality.

788 **Nevada County Resource Conservation District**
Bear River Watershed Restoration and Remediation: Mercury Habitat and Fuel

Cooperating Entity 1: **USGS** Cooperating Entity 2: **Bitterroot Restoration Inc.**

Grant Requested: **$1,676,074.00** Cost Match: **$948,830.00** Total Project **$2,624,904.00**

The Bear River Watershed suffers from a legacy of mercury contamination and aquatic habitat degradation from historical mining activities as well as fuel loading problems in relation to potential wildfires. The proposed project would address mercury contamination issues with a comprehensive, integrated approach involving monitoring and modeling; habitat restoration activities are focussed in the Dry Creek area in and around Beale Air Force Base, which has degraded spawning habitat for anadramous fish; fuel reduction efforts will be focused on 3 communities in Nevada City/Grass Valley with enhanced chipping program over the whole watershed.

789 **San Bernardino Valley Audubon Society**
Lytle Creek Watershed Protection

Cooperating Entity 1: **Endangered Habitats League** Cooperating Entity 2: **Center for Biological Diversity**

Grant Requested: **$5,000,000.00** Cost Match: **$30,000,000.00** Total Project **$5,000,000.00**

Protection of the lower Lytle Creek floodplain by acquisition of undeveloped land threatened by imminent urban development. Benefits are primarily 1) enhanced water spreading and recharge for water storage 2) avoidance of urban runoff and nonpoint pollution sources 3) protection against increased water velocity and flooding downstream by avoiding channelization and 4) protection of valued wildlife habitat associated with Lytle Creek.

790 **Port of San Francisco**
Fishermans Wharf/Aquatic Park Water Quality Improvements for Seasonal Fisheries

Cooperating Entity 1: **Fishermans Wharf Water Quality Advisory Committee (EQAC)** Cooperating Entity 2: **San Francisco Crab Boat Owners Association**

Grant Requested: **$215,000.00** Cost Match: **$65,000.00** Total Project **$280,000.00**

Water quality improvements aimed at discharges related to small, commercial fishing operations (typically single boat owners) and seasonal fishing operations for herring. Project is to design and construct a system for collection, treatment, and disposal into sanitary sewer system of water discharged from fishing boats during herring unloading operations.

791 **Port District of San Diego**
Long Term Sediment Management Plan for San Diego Bay

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$200,000.00** Cost Match: **$0.00** Total Project **$200,000.00**

The Long-term Sediment Management Plan will outline a strategic approach to improving water quality through comprehensive, long-term sediment management in San Diego Bay. Development of this Plan would take place with participation from all users of San Diego Bay. The Plan will be spearheaded by a stakeholder group under advisement from experts in the field (Sediment Technical Advisory Committee) this project will provide the most comprehensive list of appropriate and environmentally acceptable approaches and alternatives for sediment management in the region.

792 **Regional Water Authority**
RWA Public Outreach and School Education Program

Cooperating Entity 1: **See attached list** Cooperating Entity 2: **0**

Grant Requested: **$1,106,000.00** Cost Match: **$335,000.00** Total Project **$1,441,000.00**

Fifte en water suppliers in the Sacramento Region will expand and modify existing public outreach and school education programs. The objective is to reduce landscape irrigation runoff. Metrics include volume of water used for irrigation and number of water waste calls received by water utilities.

793 **Lake County Flood Control and Water Conservation District**
Middle Creek Flood Damage Reduction and Ecosystem Restoration Project

Cooperating Entity 1: **U. S. Army Corps of Engineers - Sacramento District** Cooperating Entity 2: **California State Reclamation Board**

Grant Requested: **$387,410.00** Cost Match: **$1,620,408.00** Total Project **$2,007,818.00**

This phase of the Project incorporates design and preparation of plans and specifications for the improvements necessary to construct the Middle Creek Flood Damage Reduction and Ecosystem Restoration Project (Project). The overall Project consists of acquiring approximately 1,650 acres of "reclaimed" land, removing the substandard levees separating the land from Clear Lake, and allowing the Project area to reflood. The Project reduces the substantial flood risk to the properties behind the substandard levee, restores wetland habitat lost in the previous century, and will significantly increase the water quality of waters entering Clear Lake and of Clear Lake

794 **University of California Davis**
A Baseline Vegetation Map for the Putah Creek and Cache Creek Watersheds

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$544,500.00** Cost Match: **$0.00** Total Project **$544,500.00**

This project proposes to extend an existing vegetatoin map of Napa County (25,500 polygons, 505,000 acres) and a 218 acre map of SE Lake County, Yolo and Solano Counties (in preparation) to include the unmapped headwaters of the Putah Creek and Cache Creek drainages and portions of the lower watersheds west of Interstate 505. Includes ground plot data collection to define new vegetation types, as well as post-production map accuracy assesment.

795 **City of Los Angeles Department of Public Works Bureau of Sanitation Watershed Protectionj Division**
Los Angeles River Headworks Urban Runoff Treatment Wetlands

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$4,000,000.00** Cost Match: **$1,000,000.00** Total Project **$5,000,000.00**

The Los Angeles River Headworks Urban Runoff Treatment Wetlands will reduce nonpoint source pollution in the Los Angeles River through the use of constructed treatment wetlands. Dry weather flows from the Los Angeles River will be diverted to the wetlands for treatment to reduce such pollutants as suspended solids, nitrogen, phosphorus, bacteria, and metals before discharging back to the Los Angeles River.

796 **Water Resources Assn of Yolo County**
Water Resources Association of Yolo County Community Outreach and Data Library Project

Cooperating Entity 1: **Yolo County cities of Davis Woodland UCD YCFCWCD Dunnigan WD** Cooperating Entity 2: **Yolo County RCD**

Grant Requested: **$537,000.00** Cost Match: **$0.00** Total Project **$537,000.00**

The WRA Community Outreach and Information Management Project will establish a community involvement process to gain widespread community participation in watershed management planning and implementation. In addition, the project will increase public accessibility to public watershed information by indexing and digitizing portions of several thousand current and historical publications, studies, reports, maps and other information, and making it available through a web portal.

797 **County of Humboldt**
McKinleyville Watershed Management Program

Cooperating Entity 1: **McKinleyville Land Trust** Cooperating Entity 2: **McKinleyville Community Services District**

Grant Requested: **$637,500.00** Cost Match: **$112,500.00** Total Project **$750,000.00**

Prepare a revised stormwater drainage plan which is non-point source compliant, carry out a wetland restoration/ stormwater retention demonstration project, and develop a community-based water quality monitoring and creeks stewardship program.

798 **U.S. Geological Survey**
Short title: CONTINUOUS HIGH FREQUENCY WATER QUALITY MONITORING FOR DOC SSC NITRATE AND CHLOROPHYLL

Cooperating Entity 1: **0** Cooperating Entity 2: **0**

Grant Requested: **$3,900,000.00** Cost Match: **$1,400,000.00** Total Project **$5,300,000.00**

The objectives of this project are to: 1) Demonstrate the feasibility and practicality of high frequency automated remote measurements of DOC, nitrate, algal abundance, and suspended sediment concentration.2) Develop a network capable of providing a real-time continuous record of DOC, nitrate, sediment, and algal content.3) Develop a quality assurance plan for qualification, maintenance, and operation of the network. 4) Provide a number of portable network monitoring nodes useful for special studies, BMP monitoring, and other applications as neded.

800 **Butte Creek Watershed Conservancy**
Butte Creek Watershed Stewardship and Technology Transfer Proposal

Cooperating Entity 1: **Lassen National Forest** Cooperating Entity 2: **Lassen National Forest**

Grant Requested: **$693,910.00** Cost Match: **$201,000.00** Total Project **$894,910.00**

Project would implement site specific road restoration/improvement actions designed to significantly reduce erosion and sediment deposition into tributaries of Butte Creek. The sites were identified by the Lassen National Forest resource specialists who have proposed treatments are in compliance with the Lassen National Forest Land and Resource Management Plan, meet targeted actions (Target 1 - Restore upper watershed processes) listed for Butte Creek in the CALFED Program Plan, Volume II, and specifically address Issue 5 (Improper road design, construction and maintenance intercepts and redirects runoff, causing erosion and road washouts and may damage the watershed) of the Butte Creek Watershed Conservancy Existing Conditions Report.

801 **US Forest Service Tahoe National Forest**
North Yuba River Watershed Assessment of Mercury and Arsenic at Abandoned Mines

Cooperating Entity 1: **SWRCB** Cooperating Entity 2: **USGS**

Grant Requested: **$120,000.00** Cost Match: **$0.00** Total Project **$120,000.00**

Investigation of Arsenic and Mercury at abandoned mines in the Nirth Yuba watershed. Collect surface water, sediment and biota samples and test them for arsenic, mercury and methylmercury.

803 **West Stanislaus County Resource Conservation District**
A watershed approach to mitigating sediment toxicity in westside tributaries of the San Joaquin River

Cooperating Entity 1: **University of California Berkeley** Cooperating Entity 2: **University of California Davis**

Grant Requested: **$820,000.00** Cost Match: **$0.00** Total Project **$820,000.00**

Past sampling of Del Puerto Creek by the SWAMP program and UC Berkeley have documented persistent toxicity of the sediments over nearly a two year period. Levels of pyrethroid pesticides in the sediments are among the highest reported in the Bay-Delta, and their presence may be a contributing factor to this toxicity. We propose a source identification effort with chemistry and toxicity sampling throughout the creek, integrated with Geographic Information System analysis to examine watershed patterns of land use and pesticide use. In later stages of the project, mitigation measures will be undertaken once the land use contributing to the toxicity is identified. The proposed work should be a model of watershed assessment and management, accomplished by collaboration between academia and agricultural stakeholders in the local community.

804 **Water Education Foudnation**
Healthy Water Healthy People

Cooperating Entity 1: **U.S. Bureau of Reclamation Mid Pacific Region** Cooperating Entity 2:**0**

Grant Requested: **$153,500.00** Cost Match: **$88,000.00** Total Project **$221,500.00**

Healthy Water, Healthy People is a "train the trainer" education program which trains facilitators, and educators state-wide in the State of California. The curriculum will be presented to the K-12 population who learn about water quality issues and make behavior changes that will follow them through their lives.